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The Hartford Working Group Hartford, Illinois



Data Submittal for Hartford Interim Measures

Volume II

Prepared by:

ENSR Corporation July 2004 Document No.: 01005-093-330

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APPENDIX A

AIR TOXICS LTD. - LABORATORY REPORT 0406075

Field Sample ID	Sample Location Description	Type/Container	Laboratory Sample ID	Analysis	Method
060104-310-B East	310 N Delmar. Indoor air sample	Indoor Air/24-hour	0406075A-01A	VOCs	TO-15
	from the east end of the	Summa Canister	0406075B-01A	Benzene rerun	Mod. TO-15
	basement.		0406075C-01A	Methane	ASTM D-1946
			0406075D-01A	Additional VOCs	@ 82 GC/FID
			0406075E-01A	VOCs	TO-15
060104-310-B West	310 N Delmar. Indoor air sample	Indoor Air/24-hour	0406075A-02A	VOCs	TO-15
	from the west end of the	Summa Canister	0406075B-02A	Benzene rerun	Mod. TO-15
	basement.		0406075C-02A	Methane	ASTM D-1946
			0406075D-02A	Additional VOCs	@ 82 GC/FID
			0406075E-02A	VOCs	TO-15
060104-310 O South	310 N Delmar. Outdoor air	Outdoor Air/24-hour	0406075A-03A	VOCs	TO-15
	sample collected outside of the	Summa Canister	0406075B-03A	Benzene rerun	Mod. TO-15
	south side of the house		0406075C-03A	Methane	ASTM D-1946
			0406075D-03A	Additional VOCs	@ 82 GC/FID
			0406075E-03A	VOCs	TO-15

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0406075A

Work Order Summary

CLIENT:

Ms. Robin Schilling

ENSR

27755 Diehl Road

Suite 100

Warrenville, IL 60555

PHONE:

FAX: 630-8

DATE RECEIVED:

DATE COMPLETED:

630-836-1700

630-836-1711

6/3/04

6/24/04

BILL TO: Ms. Robin Schilling

ENSR

27755 Diehl Road

Suite 100

Warrenville, IL 60555

P.O. # 2017826

PROJECT# 01005-

01005-093-360 Hartford ICC 310 N Delmar

DECEMBE

CONTACT:

DeDe Dodge

			RECEIPT
FRACTION#	NAME	TEST	YAC/PRES.
01A	060104-310-B East	Modified TO-15/TICs	5.0 "Hg
02A	060104-310-B West	Modified TO-15/TICs	2.5 "Hg
03A	060104-310-O South	Modified TO-15/TICs	4.5 "Hg
04A	Lab Blank	Modified TO-15/TICs	NA
05A	CCV	Modified TO-15/TICs	NA

CERTIFIED BY:

Sinda d. Fruman

DATE:

06/24/04

Laboratory Director

Certification numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000. (800) 985-5955. FAX (916) 985-1020

LABORATORY NARRATIVE Ozone Precursors by Modified TO-15 ENSR Workorder# 0406075A

Three 6 Liter Summa Canister samples were received on June 03, 2004. The laboratory performed analysis for Ozone Precursors via Modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	TO-15	ATL Modifications
BFB acceptance criteria	CLP protocol	SW-846 protocol
IS Recoveries	60- 140% of mean over ICAL for blanks, and w/in 60- 140% of daily CCV for samples.	Within 60-140% of CCV recoveries for blank and samples.
Dilutions for initial calibration	Dynamic dilutions or static using canisters	Syringe dilutions
Daily CCV	70 - 130 %	60-140% for 90% of the target compounds
Concentration of IS spike	10 ppbv	25 ppbv
Concentration of IS spike	10 ppbv	25 ppbv

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Specific analytes that are requested by the client to be reported as tentatively identified compounds (TICs) are determined by searching for each compound's characteristic spectra. If no chromatographic peak displaying the compound specific spectra exists, then the TIC is reported as not detected. Please note that the laboratory has not evaluated the stability of any heretofore tentatively identified compound in the vapor phase or for efficiency of recovery through the analytical system.

There were no analytical discrepancies.

The reported CCV for each daily batch may be derived from more than one individual analytical file due to the client's request for non-standard compounds.

Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction no performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

SAMPLE NAME: 060104-310-B East

ID#: 0406075A-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

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Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	23	Not Detected	75	Not Detected
Ethyl Benzene	23	Not Detected	100	Not Detected
Styrene	23	Not Detected	100	Not Detected
oluene	23	Not Detected	88	Not Detected
,2,4-Trimethylbenzene	23	Not Detected	110	Not Detected
,3,5-Trimethylbenzene	23	Not Detected	110	Not Detected
n,p-Xylene	23	Not Detected	100	Not Detected
-Xylene	23	Not Detected	100	Not Detected
Butane	92	2700	220	6600
l-Butene	92	Not Detected	210	Not Detected
is-2-Butene	92	Not Detected	210	Not Detected
trans-2-butene	92	150	210	340
Cyclohexane	92	Not Detected	320	Not Detected
Cyclopentane	92	Not Detected	270	Not Detected
2,2-Dimethylbutane	92	Not Detected	330	Not Detected
2,3-Dimethylbutane	92	140	330	500
2,3-Dimethylpentane	92	200	380	860
2,4-Dimethylpentane	92	130	380	560
Heptane	92	Not Detected	380	Not Detected
Hexane	92	100	330	370
Isoprene	92	Not Detected	260	Not Detected
Cumene	92	Not Detected	460	Not Detected
Isopentane	92	2300	280	6800
Methylcyclohexane	92	Not Detected	380	Not Detected
Methylcyclopentane	92	Not Detected	320	Not Detected
2-Methylheptane	92	Not Detected	440	Not Detected
3-Methylheptane	92	Not Detected	440	Not Detected
2-Methylhexane	92	Not Detected	380	Not Detected
3-Methylhexane	92	Not Detected	380	Not Detected
2-Methylpentane	92	310	330	1100
3-Methylpentane	92	190	330	680
Isobutane	92	1100	220	2700
Nonane	92	Not Detected	490	Not Detected
Octane	92	Not Detected	440	Not Detected
Pentane	92	520	280	1600
1-Pentene	92	Not Detected	270	Not Detected
cis-2-Pentene	92	Not Detected	270	Not Detected
trans-2-Pentene	92	Not Detected	270	Not Detected
Propylbenzene	92	Not Detected	460	Not Detected
2,2,4-Trimethylpentane	92	250	440	1200
2,3,4-Trimethylpentane	92	Not Detected	440	Not Detected
1-Hexene	92	Not Detected	320	Not Detected

SAMPLE NAME: 060104-310-B East

ID#: 0406075A-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

\$2000 of doll become

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
3-Ethyltoluene	92	Not Detected	460	Not Detected
4-Ethyltoluene	92	Not Detected	460	Not Detected
2-Ethyltoluene	92	Not Detected	460	Not Detected
Decane	92	Not Detected	540	Not Detected
1,2,3-Trimethylbenzene	92	Not Detected	460	Not Detected
1,3-Diethylbenzene	92	Not Detected	510	Not Detected
1,4-Diethylbenzene	92	Not Detected	510	Not Detected
Undecane	92	Not Detected	600	Not Detected
cis-2-Hexene	230	Not Detected	800	Not Detected
trans-2-Hexene	230	Not Detected	800	Not Detected
alpha-Pinene	230	Not Detected	1300	Not Detected
beta-Pinene	230	Not Detected	1300	Not Detected
Cyclopentene	92	Not Detected	260	Not Detected
1-Undecene	230	Not Detected	1500	Not Detected
1-Decene	230	Not Detected	1300	Not Detected
1-Nonene	92	Not Detected	480	Not Detected
1-Octene	92	Not Detected	430	Not Detected
1-Heptene	92	Not Detected	380	Not Detected
1,3-Butadiene	23	Not Detected	52	Not Detected
TPH ref. to Gasoline (MW=100)	460	3600	1900	15000
	TENTATIVELY IDEN	NTIFIED COMPOUNDS		
Compound		CAS Number	Match Quality	Amount ppbv
Dodecane		112-40-3	NA	Not Detected
1-Dodecene		112-41-4	NA	Not Detected

Tridecane

Surrogates

Toluene-d8

1,2-Dichloroethane-d4

4-Bromofluorobenzene

Container Type: 6 Liter Summa Canister

629-50-5

%Recovery

108 100

98

NA

Not Detected

Method

70-130

70-130

70-130

SAMPLE NAME: 060104-310-B West

1D#: 0406075A-02A

710 (1.) Dis 715	39030 	St. St. St.	Daniel Spilos (Propriedly)	$\label{eq:continuous} \begin{split} & \mathcal{L} = 0 \\ & \mathcal{L} (\hat{\mathbf{x}}_{1}^{-1} \mathbf{f}_{1}^{-1} \mathbf{x}_{2}) & = - \mathcal{L}_{1} - \mathcal{L}_{2} + 1 \end{split}$
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	36	Not Detected	120	Not Detected
Ethyl Benzene	36	Not Detected	160	Not Detected
Styrene	36	Not Detected	160	Not Detected
Toluene	36	Not Detected	140	Not Detected
1,2,4-Trimethylbenzene	36	Not Detected	180	Not Detected
1,3,5-Trimethylbenzene	36	Not Detected	180	Not Detected
m,p-Xylene	36	Not Detected	160	Not Detected
o-Xylene	36	Not Detected	160	Not Detected
Butane	150	3800	350	9200
1-Butene	150	140 J	340	340
cis-2-Butene	150	Not Detected	340	Not Detected
trans-2-butene	150	250	340	580
Cyclohexane	150	Not Detected	510	Not Detected
Cyclopentane	150	Not Detected	420	Not Detected
2,2-Dimethylbutane	150	Not Detected	520	Not Detected
2,3-Dimethylbutane	150	210	520	770
2,3-Dimethylpentane	150	320	610	1300
2,4-Dimethylpentane	150	200	610	840
Heptane	150	Not Detected	610	Not Detected
Hexane	150	170	520	600
Isoprene	150	Not Detected	410	Not Detected
Cumene	150	Not Detected	730	Not Detected
Isopentane	150	3400	440	10000
Methylcyclohexane	150	Not Detected	600	Not Detected
Methylcyclopentane	150	Not Detected	510	Not Detected
2-Methylheptane	150	Not Detected	690	Not Detected
3-Methylheptane	150	Not Detected	690	Not Detected
2-Methylhexane	150	Not Detected	610	Not Detected
3-Methylhexane	150	Not Detected	610	Not Detected
2-Methylpentane	150	460	520	1600
3-Methylpentane	150	280	520	1000
Isobutane	150	1500	350	3600
Nonane	150	Not Detected	780	Not Detected
Octane	150	Not Detected	690	Not Detected
Pentane	150	810	440	2400
1-Pentene	150	Not Detected	420	Not Detected
cis-2-Pentene	150	Not Detected	420	Not Detected
trans-2-Pentene	150	Not Detected	420	Not Detected
Propylbenzene	150	Not Detected	730	Not Detected
2,2,4-Trimethylpentane	150	380	690	1800
2,3,4-Trimethylpentane	150	Not Detected	690	Not Detected
1-Hexene	150	Not Detected	510	Not Detected

SAMPLE NAME: 060104-310-B West

ID#: 0406075A-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

alombo Sigrica		Daly of Bellesian (1976)			
Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
3-Ethyltoluene	150	Not Detected	730	Not Detected	
4-Ethyltoluene	150	Not Detected	730	Not Detected	
2-Ethyltoluene	150	Not Detected	730	Not Detected	
Decane	150	Not Detected	860	Not Detected	
1,2,3-Trimethylbenzene	150	Not Detected	730	Not Detected	
1,3-Diethylbenzene	150	Not Detected	810	Not Detected	
1,4-Diethylbenzene	150	Not Detected	810	Not Detected	
Undecane	150	Not Detected	950	Not Detected	
cis-2-Hexene	360	Not Detected	1300	Not Detected	
trans-2-Hexene	360	Not Detected	1300	Not Detected	
alpha-Pinene	360	Not Detected	2100	Not Detected	
beta-Pinene	360	Not Detected	2100	Not Detected	
Cyclopentene	150	Not Detected	410	Not Detected	
1-Undecene	360	Not Detected	2300	Not Detected	
1-Decene	360	Not Detected	2100	Not Detected	
1-Nonene	150	Not Detected	770	Not Detected	
1-Octene	150	Not Detected	680	Not Detected	
1-Heptene	150	Not Detected	600	Not Detected	
1,3-Butadiene	36	Not Detected	82	Not Detected	
TPH ref. to Gasoline (MW=100)	730	4700	3000	20000	

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Dodecane	112-40-3	NA	Not Detected
1-Dodecene	112-41-4	NA	Not Detected
Tridecane	629-50-5	NA	Not Detected
J = Estimated value.			
Container Type: 6 Liter Summa Canister			
Surrogates	%Recovery		Method Limits
1,2-Dichloroethane-d4	108		70-130

100

98

Toluene-d8

4-Bromofluorobenzene

70-130

70-130

SAMPLE NAME: 060104-310-O South

ID#: 0406075A-03A

	2011	and the state of t		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.79	Not Detected	2.6	Not Detected
Ethyl Benzene	0.79	Not Detected	3.5	Not Detected
Styrene	0.79	Not Detected	3.4	Not Detected
Toluene	0.79	Not Detected	3.0	Not Detected
1,2,4-Trimethylbenzene	0.79	Not Detected	3.9	Not Detected
1,3,5-Trimethylbenzene	0.79	Not Detected	3.9	Not Detected
m,p-Xylene	0.79	Not Detected	3.5	Not Detected
o-Xylene	0.79	Not Detected	3.5	Not Detected
Butane	3.2	6.2	7.6	15
1-Butene	3.2	Not Detected	7.4	Not Detected
cis-2-Butene	3.2	Not Detected	7.4	Not Detected
trans-2-butene	3.2	Not Detected	7.4	Not Detected
Cyclohexane	3.2	Not Detected	11	Not Detected
Cyclopentane	3.2	Not Detected	9.2	Not Detected
2,2-Dimethylbutane	3.2	Not Detected	11	Not Detected
2,3-Dimethylbutane	3.2	Not Detected	11	Not Detected
2,3-Dimethylpentane	3.2	Not Detected	13	Not Detected
2,4-Dimethylpentane	3.2	Not Detected	13	Not Detected
Heptane	3.2	Not Detected	13	Not Detected
Hexane	3.2	Not Detected	11	Not Detected
Isoprene	3.2	Not Detected	8.9	Not Detected
Cumene	3.2	Not Detected	16	Not Detected
Isopentane	3.2	9.7	9.5	29
Methylcyclohexane	3.2	Not Detected	13	Not Detected
Methylcyclopentane	3.2	Not Detected	11	Not Detected
2-Methylheptane	3.2	Not Detected	15	Not Detected
3-Methylheptane	3.2	Not Detected	15	Not Detected
2-Methylhexane	3.2	Not Detected	13	Not Detected
3-Methylhexane	3.2	Not Detected	13	Not Detected
2-Methylpentane	3.2	Not Detected	11	Not Detected
3-Methylpentane	3.2	Not Detected	11	Not Detected
Isobutane	3.2	5.9	7.6	14
Nonane	3.2	Not Detected	17	Not Detected
Octane	3.2	Not Detected	15	Not Detected
Pentane	3.2	Not Detected	9.5	Not Detected
1-Pentene	3.2	Not Detected	9.2	Not Detected
cis-2-Pentene	3.2	Not Detected	9.2	Not Detected
trans-2-Pentene	3.2	Not Detected	9.2	Not Detected
Propylbenzene	3.2	Not Detected	16	Not Detected
2,2,4-Trimethylpentane	3.2	Not Detected	15	Not Detected
2,3,4-Trimethylpentane	3.2	Not Detected	15	Not Detected
1-Hexene	3.2	Not Detected	11	Not Detected

SAMPLE NAME: 060104-310-O South

ID#: 0406075A-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Fireford Risks	And the second		der se Steiner in 19 Der se Steiner in 19	3210103337	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
3-Ethyltoluene	3.2	Not Detected	16	Not Detected	
4-Ethyltoluene	3.2	Not Detected	16	Not Detected	
2-Ethyltoluene	3.2	Not Detected	16	Not Detected	
Decane	3.2	Not Detected	19	Not Detected	
1,2,3-Trimethylbenzene	3.2	Not Detected	16	Not Detected	
1,3-Diethylbenzene	3.2	Not Detected	18	Not Detected	
1,4-Diethylbenzene	3.2	Not Detected	18	Not Detected	
Undecane	3.2	Not Detected	20	Not Detected	
cis-2-Hexene	7.9	Not Detected	28	Not Detected	
trans-2-Hexene	7.9	Not Detected	28	Not Detected	
alpha-Pinene	7.9	Not Detected	45	Not Detected	
beta-Pinene	7.9	Not Detected	45	Not Detected	
Cyclopentene	3.2	Not Detected	8.9	Not Detected	
1-Undecene	7.9	Not Detected	50	Not Detected	
1-Decene	7.9	Not Detected	46	Not Detected	
1-Nonene	3.2	Not Detected	16	Not Detected	
1-Octene	3.2	Not Detected	15	Not Detected	
1-Heptene	3.2	Not Detected	13	Not Detected	
1,3-Butadiene	0.79	Not Detected	1.8	Not Detected	
TPH ref. to Gasoline (MW=100)	16	Not Detected	66	Not Detected	

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Dodecane	112-40-3	NA	Not Detected
1-Dodecene	112-41-4	NA	Not Detected
Tridecane	629-50-5	NA	Not Detected
Container Type: 6 Liter Summa Canister			Method
Surrogates	%Recovery		Limits
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	100		70-130

SAMPLE NAME: Lab Blank

ID#: 0406075A-04A

ři 2014 – j Diskopet	506741 1450		granderen (d. 1865) 1880 - Andria	经基制的专业企业工
Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.50	Not Detected	1.6	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.2	Not Detected
Foluene	0.50	Not Detected	1.9	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected
n,p-Xylene	0.50	Not Detected	2.2	Not Detected
>-Xylene	0.50	Not Detected	2.2	Not Detected
Butane	2.0	Not Detected	4.8	Not Detected
1-Butene	2.0	Not Detected	4.7	Not Detected
cis-2-Butene	2.0	Not Detected	4.7	Not Detected
trans-2-butene	2.0	Not Detected	4.7	Not Detected
Cyclohexane	2.0	Not Detected	7.0	Not Detected
Cyclopentane	2.0	Not Detected	5.8	Not Detected
2,2-Dimethylbutane	2.0	Not Detected	7.2	Not Detected
2,3-Dimethylbutane	2.0	Not Detected	7.2	Not Detected
2,3-Dimethylpentane	2.0	Not Detected	8.3	Not Detected
2,4-Dimethylpentane	2.0	Not Detected	8.3	Not Detected
Heptane	2.0	Not Detected	8.3	Not Detected
Hexane	2.0	Not Detected	7.2	Not Detected
Isoprene	2.0	Not Detected	5.7	Not Detected
Cumene	2.0	Not Detected	10	Not Detected
Isopentane	2.0	Not Detected	6.0	Not Detected
Methylcyclohexane	2.0	Not Detected	8.2	Not Detected
Methylcyclopentane	2.0	Not Detected	7.0	Not Detected
2-Methylheptane	2.0	Not Detected	9.5	Not Detected
3-Methylheptane	2.0	Not Detected	9.5	Not Detected
2-Methylhexane	2.0	Not Detected	8.3	Not Detected
3-Methylhexane	2.0	Not Detected	8.3	Not Detected
2-Methylpentane	2.0	Not Detected	7.2	Not Detected
3-Methylpentane	2.0	Not Detected	7.2	Not Detected
Isobutane	2.0	Not Detected	4.8	Not Detected
Nonane	2.0	Not Detected	11	Not Detected
Octane	2.0	Not Detected	9.5	Not Detected
Pentane	2.0	Not Detected	6.0	Not Detected
1-Pentene	2.0	Not Detected	5.8	Not Detected
cis-2-Pentene	2.0	Not Detected	5.8	Not Detected
trans-2-Pentene	2.0	Not Detected	5.8	Not Detected
Propylbenzene	2.0	Not Detected	10	Not Detected
2,2,4-Trimethylpentane	2.0	Not Detected	9.5	Not Detected
2,3,4-Trimethylpentane	2.0	Not Detected	9.5	Not Detected
1-Hexene	2.0	Not Detected	7.0	Not Detected

SAMPLE NAME: Lab Blank

ID#: 0406075A-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

and the second

250.501.5

31 757

ROMANIA NOTES			Party (Calculated)	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
3-Ethyltoluene	2.0	Not Detected	10	Not Detected
1-Ethyltoluene	2.0	Not Detected	10	Not Detected
2-Ethyltoluene	2.0	Not Detected	10	Not Detected
Decane	2.0	Not Detected	12	Not Detected
1,2,3-Trimethylbenzene	2.0	Not Detected	10	Not Detected
1,3-Diethylbenzene	2.0	Not Detected	11	Not Detected
1,4-Diethylbenzene	2.0	Not Detected	11	Not Detected
Undecane	2.0	Not Detected	13	Not Detected
cis-2-Hexene	5.0	Not Detected	17	Not Detected
trans-2-Hexene	5.0	Not Detected	17	Not Detected
alpha-Pinene	5.0	Not Detected	28	Not Detected
beta-Pinene	5.0	Not Detected	28	Not Detected
Cyclopentene	2.0	Not Detected	5.7	Not Detected
1-Undecene	5.0	Not Detected	32	Not Detected
1-Decene	5.0	Not Detected	29	Not Detected
1-Nonene	2.0	Not Detected	10	Not Detected
1-Octene	2.0	Not Detected	9.3	Not Detected
1-Heptene	2.0	Not Detected	8.2	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
TPH ref. to Gasoline (MW=100)	10	Not Detected	42	Not Detected
	TENTATIVELY IDEN	ITIFIED COMPOUND	s	
Compound		CAS Number	Match Quality	Amount ppbv
Dodecane		112-40-3	NA	Not Detected
1-Dodecene		112-41-4	NA	Not Detected

Compound CAS Number Match Quality ppbv Dodecane 112-40-3 NA Not Detected 1-Dodecene 112-41-4 NA Not Detected Tridecane 629-50-5 NA Not Detected Container Type: NA - Not Applicable Method Surrogates %Recovery Limits

SAMPLE NAME: CCV

ID#: 0406075A-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

元为近海(五) "老兔"由《5.

Compound	%Recovery
Benzene	100
Ethyl Benzene	98
Styrene	106
Toluene	100
1,2,4-Trimethylbenzene	101
1,3,5-Trimethylbenzene	102
m,p-Xylene	100
o-Xylene	98
Butane	96
1-Butene	89
cis-2-Butene	103
trans-2-butene	104
Cyclohexane	103
Cyclopentane	106
2,2-Dimethylbutane	102
2,3-Dimethylbutane	103
2,3-Dimethylpentane	100
2,4-Dimethylpentane	100
Heptane	104
Hexane	101
Isoprene	102
Cumene	101
Isopentane	104
Methylcyclohexane	101
Methylcyclopentane	99
2-Methylheptane	102
3-Methylheptane	100
2-Methylhexane	102
3-Methylhexane	103
2-Methylpentane	105
3-Methylpentane	102
Isobutane	104
Nonane	102
Octane	101
Pentane	102
1-Pentene	102
cis-2-Pentene	103
trans-2-Pentene	103
Propylbenzene	114
2,2,4-Trimethylpentane	102
2,3,4-Trimethylpentane	98
1-Hexene	106

SAMPLE NAME: CCV

1D#: 0406075A-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN



Compound	%Recovery
3-Ethyltoluene	110
4-Ethyltoluene	106
2-Ethyltoluene	106
Decane	100
1,2,3-Trimethylbenzene	106
1,3-Diethylbenzene	102
1,4-Diethylbenzene	101
Undecane	99
cis-2-Hexene	108
trans-2-Hexene	106
alpha-Pinene	94
beta-Pinene	88
Cyclopentene	104
1-Undecene	77
1-Decene	89
1-Nonene	99
1-Octene	102
1-Heptene	103
1,3-Butadiene	108
TPH ref. to Gasoline (MW=100)	Not Spiked

Container Type: NA - Not Applicable

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	98	70-130

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CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Beinquishing agrature or that document indicates that sample is being shipped in compliance FOLSOM, CA 95830-4719

With all applicable local, State, Federal, national, one international leave, regulations and (916) 985-1000 FAX: (916) 985-1020

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Page: 7.000 FAX: (916) 985-1020

Page: 7.000 FAX: (91

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Person Robert Schilling Dave	27755 Bigh 80-88-1700	d San	011 of stey - 310 - B EAST 6	3			Fr. (Blandaria) Obsertions 6/2/04 (#30	Colectuched By: Saymarani Case. Time	Shipper Name AK Bill 4	
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AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0406075B

Work Order Summary

CLIENT: Ms. Robin Schilling BILL TO: Ms. Robin Schilling

ENSR

ENSR

27755 Diehl Road

27755 Diehl Road

Suite 100

Suite 100

Warrenville, IL 60555

Warrenville, IL 60555

PHONE:

630-836-1700

P.O. # 2017826

FAX:

630-836-1711

PROJECT #

01005-093-360 Hartford ICC 310 N Delmar

DATE RECEIVED:

6/3/2004

CONTACT: DeDe Dodge

DATE COMPLETED:

6/17/2004

RECEIPT FRACTION # NAME **TEST** VAC./PRES. 01A 060104-310-B East Modified TO-15 5.0 "Hg 02A 060104-310-B West Modified TO-15 2.5 "Hg 03A Modified TO-15 4.5 "Hg 060104-310-O South 03AA 060104-310-O South Duplicate Modified TO-15 4.5 "Hg 04A Lab Blank Modified TO-15 NA 04B Lab Blank Modified TO-15 NA 05A CCV Modified TO-15 NA 05B **CCV** Modified TO-15 NA 06A LCS Modified TO-15 NA Modified TO-15 06B LCS NA

CERTIFIED BY:

Sinda d. Frumas

06/17/04 DATE:

Laboratory Director

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05 Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE Modified TO-15 ENSR Workorder# 0406075B

Three 6 Liter Summa Canister samples were received on June 03, 2004. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	TO-14A/TO-15	ATL Modifications
BFB acceptance criteria	CLP protocol (TO-15)	SW-846 protocol
Concentration of IS spike	10 ppbv (TO-15)	25 ppbv
Dilutions for initial calibration	Dynamic dilutions or static using canisters	Syringe dilutions
Daily CCV	= 30% Difference</td <td><!--= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers</p--></td>	= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers</p
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43.	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58.
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Sample Drying System	Nafion Dryer (TO-14A)	Multisorbent
Sample Load Volume	400 mL (TO-14A)	Varied to 0.2 L.
Blank Acceptance Criteria.	< 0.20 ppbv (TO-14A)	< RL
BFB Absolute Abundance Criteria (TO-14A)	Within 10% of that from the previous day.	CCV internal standard area counts are compared to ICAL, corrective action for > 40 % D.
Initial Calibration	= 30 %RSD (TO-14A)</td <td><!--= 30 % RSD with 2 compounds allowed out to </= 40 % RSD.</td--></td>	= 30 % RSD with 2 compounds allowed out to </= 40 % RSD.</td
IS Recoveries	Within 40% of mean over ICAL for blanks, and within 40 % of daily CCV for samples. (TO-15)	Within 40% of CCV recoveries for blank and samples.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated Peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

SAMPLE NAME: 060104-310-B East

ID#: 0406075B-01A

State of				
			- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.32	1.9	1.0	6.2
Container Type: 6 Liter Sumi	ma Canister			
Surrogates		%Recovery		Method Limits
Toluene-d8		96		70-130

SAMPLE NAME: 060104-310-B West

ID#: 0406075B-02A

e ²⁺ − 73 % +	:		Take seem to be seen as	The second second	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
Benzene	0.29	5.5	0.95	18	
Container Type: 6 Liter Sumn	na Canister				
Surrogates		%Recovery		Method Limits	
Toluene-d8		95		70-130	

SAMPLE NAME: 060104-310-O South

ID#: 0406075B-03A

	1			
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.32	0.75	1.0	2.4
Container Type: 6 Liter Sun	nma Canister			
Surrogates		%Recovery		Method Limits
Toluene-d8		94		70-130

SAMPLE NAME: 060104-310-O South Duplicate

ID#: 0406075B-03AA

Carrier S.	4D) %		Parameter and the second		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
Benzene	0.32	0.80	1.0	2.6	
Container Type: 6 Liter Sun	nma Canister				
Surrogates		%Recovery		Method Limits	
Toluene-d8		96		70-130	

SAMPLE NAME: Lab Blank

ID#: 0406075B-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.20	Not Detected	0.65	Not Detected
Container Type: NA - Not Applicable				
Surrogates		%Recovery		Method Limits
Toluene-d8		94		70-130

SAMPLE NAME: Lab Blank ID#: 0406075B-04B

+1 + 1 y	65 3 B			
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.20	Not Detected	0.65	Not Detected
Container Type: NA - Not Applicable				
Surrogates		%Recovery		Method Limits
Toluene-d8		100		70-130

SAMPLE NAME: CCV

ID#: 0406075B-05A

Compound		%Recovery
Benzene		88
Container Type: NA - Not Applicable		
		Method
Surrogates	%Recovery	Limits
Toluene-d8	97	70-130

SAMPLE NAME: CCV

ID#: 0406075B-05B

-2[4.4	# 16 c	$\epsilon = \epsilon + \epsilon \epsilon \epsilon^{*} + \epsilon^{*} + \epsilon^{*} + \epsilon^{*}$
Compound				%Recovery
Benzene			_	84
Container Type: NA - Not Applicable				
				Method
Surrogates		overy		Limits
Toluene-d8	9	8		70-130

SAMPLE NAME: LCS

ID#: 0406075B-06A

	%Recovery
	106
	Method
%Recovery	Limits
97	70-130
	%Recovery 97

SAMPLE NAME: LCS

ID#: 0406075B-06B

		8°.		
4] V 6 4	· · · · · · · · · · · · · · · · · · ·	·	the state of the s	to the second
Compound				%Recovery
Benzene				92
Container Type: NA - Not A	Applicable			
Surrogates		%Recovery		Method Limits
Toluene-d8		100		70-130

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CHAIN-DF-CUSTODY RECORD

Sample Transportation Notice

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180 BLUE RAVINE ROAD, SUITE B

Form 1253 new. [19 3.S. F こらず **Receipt** N.O. Canister Pressure / Vacuum and fand Tons (cuternated Schools) as for acceptos 1417 of 115th Apr. Toxics (return 6.9 2 as for acceptos 1221) of 11st **レバナショナ**シ 18 Ju Cu (18) 040607 Work Order # Specify 5.7 702 Action Latinal Asta-0-1746 es per quite Tum Around Time: Final XX Normal -30.0 29.8 None Initial 28. Custody Seals Intaci? ていて中での . with the 12 same ž Project Name Horthrold TCS Project # 01005-09 3-360 ¥ 3 8 ¥8 C. S. A. S. C. S. S. S. Notes: 52 22497 100 Analyses Requested 10 N Condition Project info: CY 1161 1755 4. L. L. L. S. S. S. C. S. L. L. L. S. L. L. L. July 2 King July 18 15 1 4 2 1 20 P.O. #._ المحيطة الكسناها ورحالك مع State TY Zp WC 355 Temp. (C Respired By Otgomes Date Time FAX 6455-335-(711 Port 18 Section By (Signature) Described unodo Reelved Or: 45 gratter; Date/Time Ring James Change Change Schange Chie Opened By: 401445661000 Date & Time 30(City Lacute 1/2 26-310 - B EAST 6/104 1708 S. mehone OKO104-310-13 WEST 61184 <u>.</u> Oc. 164-30 - O South Field Sample I.D. 李 となる Role guished By: (Signature) - Duserfirre Shipper Name Company Crist Address 2775 Phone (- 汉 - 岁公 Collected By: Signature Contact Person (E) ₹ \$ 336 356



WORK ORDER #: 0406075C

Work Order Summary

CLIENT: Ms. Robin Schilling BILL TO: Ms. Robin Schilling

ENSR

27755 Diehl Road

Suite 100

Warrenville, IL 60555

PHONE: 630-836-1700 P.O. # 2017826

FAX: 630-836-1711 PROJECT # 01005-093-360 Hartford ICC 310 N

ENSR

Suite 100

27755 Diehl Road

Warrenville, IL 60555

DATE RECEIVED: 6/3/2004 CONTACT: Delmar Dede Dodge

DATE COMPLETED: 6/14/2004

FRACTION #	NAME	TEST	RECEIPT VAC/PRES.
01A	060104-310-B East	Modified ASTM D-1946	5.0 "Hg
01AA	060104-310-B East Duplicate	Modified ASTM D-1946	5.0 "Hg
02A	060104-310-B West	Modified ASTM D-1946	2.5 "Hg
03A	060104-310-O South	Modified ASTM D-1946	4.5 "Hg
04A	Lab Blank	Modified ASTM D-1946	NA
05A	LCS	Modified ASTM D-1946	NA

CERTIFIED BY:	Sinda d. Fruman	DATE: 0	06/16/04	
CERTIFIED B1.		DATE		

Laboratory Director

Certification numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE Modified ASTM D-1946 ENSR

Workorder# 0406075C

Three 6 Liter Summa Canister samples were received on June 03, 2004. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane in air using GC/FID. The method involves direct injection of 1.0 mL of sample. See the data sheets for the reporting limits for Methane.

Requirement	ASTM D-1946	ATL Modifications	
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.	
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a >/= 95% accuracy.	
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL (2.0 mL for He and H2) on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.	
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	y al ne d	
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 30% RPD for detections > 5 X's the RL.	

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

- B Compound present in laboratory blank greater than reporting limit.
- J Estimated value.

- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the detection limit.
- M Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue

SAMPLE NAME: 060104-310-B East

ID#: 0406075C-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

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Andrew Commencer Com	The state of the s	
	Rpt. Limit	Amount
Compound	(%)	(%)
Methane	0.00016	0.00093

Container Type: 6 Liter Summa Canister

SAMPLE NAME: 060104-310-B East Duplicate

1D#: 0406075C-01AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

A a Do Sugni	THE PROPERTY OF THE PROPERTY O	
	Rpt. Limit	Amount
Compound	(%)	(%)
Methane	0.00016	0.00072

Container Type: 6 Liter Summa Canister

SAMPLE NAME: 060104-310-B West

ID#: 0406075C-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Parameter		
ر در در د	and the second s	And the state of t
	Rpt. Lim	nit Amount
Compound	(%)	(%)
Methane	0.0001	5 0.00066

SAMPLE NAME: 060104-310-O South

1D#: 0406075C-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

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and the second s	Rpt. Limit	Amount
Compound	(%)	(%)
Methane	0.00016	0.00023

SAMPLE NAME: Lab Blank

1D#: 0406075C-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

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37 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and the second s		en e
		Rpt. Limit	Amount
Compound		(%)	(%)
Methane		0.00010	Not Detected

Container Type: NA - Not Applicable

SAMPLE NAME: LCS

1D#: 0406075C-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946



Compound%RecoveryMethane99

Container Type: NA - Not Applicable

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
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with all applicable local, State, Federal, institutely, and international laws, regulations and (916) 965-1000 FAX: (916) 985-1020 entinances of any kind. Air Toxics Limited assumes no liability with respect to the collection,

Panding or stipping of these samples. Reimquishing signature also indicates agreement to hold Paintless, defend, and indemnify Air Toxics Limited aganst any claim, demand, or action of any kind, related to the colection, handing, or shipping of samples, D.O.T. Hottine (800) 467-4952

Contact Person	Person Riban Schilling Done SE	Done Schoon aches	,	Project info:		Tum Are	Tum Around Time:	
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Lab i.D.	Field Sample I.D.	Date & Time	Analys	Analyses Requested		Canister Initial	Canister Pressure / Vacuum Initial Receipt	Vacuum Receipt
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Cab Orb	F-EX 83067744594	L27		good	788 No		0406075C	0.2.5C
								Form 1286 my. Op



WORK ORDER #: 0406075D

Work Order Summary

CLIENT:

Ms. Robin Schilling

Warrenville, IL 60555

BILL TO: Ms. Robin Schilling

ENSR

ENSR 27755 Diehl Road Suite 100

27755 Diehl Road

Suite 100

Warrenville, IL 60555

PHONE:

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P.O. # 2017826

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PROJECT #

01005-093-360 Hartford ICC 310 N

DATE RECEIVED:

6/3/2004

CONTACT:

Delmar DeDe Dodge

DATE COMPLETED:

6/17/2004

FRACTION #	<u>NAME</u>	<u>TEST</u>	RECEIPT <u>VAC/PRES.</u>
01A	060104-310-B East	Air Toxics Ltd. @ 82	5.0 "Hg
01AA	060104-310-B East Duplicate	Air Toxics Ltd. @ 82	5.0 "Hg
02A	060104-310-B West	Air Toxics Ltd. @ 82	2.5 "Hg
03A	060104-310-O South	Air Toxics Ltd. @ 82	4.5 "Hg
04A	Lab Blank	Air Toxics Ltd. @ 82	NA
05A	LCS	Air Toxics Ltd. @ 82	NA

CERTIFIED BY:

Sinda d. Fruman

06/17/04 DATE:

Laboratory Director

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05 Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE Air Toxics Ltd @82 ENSR

Workorder# 0406075D

Three 6 Liter Summa Canister samples were received on June 03, 2004. The laboratory performed analysis for Ethane, Ethene, Acetylene, Propane and Propylene via Air Toxics Limited Method @82. This method describes direct injection of a 1.0 ml sample through a fixed sampling loop followed by GC/FID. See the data sheets for the reporting limit for each compound.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

- B Compound present in laboratory blank greater than reporting limit.
- J Estimated value.
- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the detection limit.
- M Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue

SAMPLE NAME: 060104-310-B East

ID#: 0406075D-01A AIT TOXICS LTD. @ 82 GC/FID

Zioùn Zul Zu	ence de la companya d		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	
Ethane	80	120	
Ethene	80	Not Detected	
Acetylene	80	Not Detected	
Propane	80	Not Detected	
Propylene	80	Not Detected	

SAMPLE NAME: 060104-310-B East Duplicate

ID#: 0406075D-01AA AIT TOXICS LTD. @ 82 GC/FID

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organistical de la companya del companya de la companya del companya de la compan	i j	<u> </u>
Compound	Rpt. Li (ppb	
Ethane	80	110
Ethene	80	Not Detected
Acetylene	80	Not Detected
Propane	80	Not Detected
Propylene	80	Not Detected

SAMPLE NAME: 060104-310-B West

1D#: 0406075D-02A AIT TOXICS LTD. @ 82 GC/FID

PANET.		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)
Ethane	73	100
Ethene	73	Not Detected
Acetylene	73	Not Detected
Propane	73	91
Propylene	73	Not Detected

SAMPLE NAME: 060104-310-O South

1D#: 0406075D-03A AIT TOXICS LTD. @ 82 GC/FID

36/013	MONE.	
Dispersion	and the state of t	ECOLEANION OF THE CO.
Compound	Rpt. l (pp	
Ethane	79	9 Not Detected
Ethene	79	9 Not Detected
Acetylene	79	9 Not Detected
Propane	79	9 Not Detected
Propylene	79	9 Not Detected

SAMPLE NAME: Lab Blank

ID#: 0406075D-04A

AIT TOXICS LTD. @ 82 GC/FID

PERC.	Dadie under de la companya della companya de la companya della com	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)
Ethane	50	Not Detected
Ethene	50	Not Detected
Acetylene	50	Not Detected
Propane	50	Not Detected
Propylene	50	Not Detected

Container Type: NA - Not Applicable

SAMPLE NAME: LCS

1D#: 0406075D-05A

AIT TOXICS LTD. @ 82 GC/FID



Compound	%Recovery
Ethane	107
Ethene	111
Acetylene	114
Propane	110
Propylene	113

Container Type: NA - Not Applicable

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Reinquishing signature on this document indicates that sample is being shipped in complance FOLSOM, CA 95630-4719
with all applicable local. State, Federal, national, and international laws, regulations and (916) 985-1000 FAX. (916) 985-1020
critinances of any knd. Air Toxics Limited assumes no liability with respect to the collection,

handling or shipping of these samples. Reinquishing signature also indicates agreement to hold fram eas, defend, and inderenity Air Toxics Limited against any claim, demand, or action of any land, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922.

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Contact Person Company E Address 2.1 Phone (3: -	da G.	400	¥ 45			4	A State of the sta	Neirquised L		Custo Only

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0406075E

Work Order Summary

CLIENT:

Ms. Robin Schilling

BILL TO:

Ms. Robin Schilling

ENSR 27755 Diehl Road ENSR

27755 Diehl Road

Suite 100

Warrenville, IL 60555

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630-836-1700 630-836-1711

Suite 100

P.O. # 2017826

01005-093-360 Hartford ICC 310 N Delmar

DATE RECEIVED:

6/3/04

PROJECT #
CONTACT:

DeDe Dodge

DATE COMPLETED:

6/17/04

			RECEIPI
FRACTION#	NAME	TEST	YAC./PRES.
01A	060104-310-B East	Modified TO-15	5.0 "Hg
02A	060104-310-B West	Modified TO-15	2.5 "Hg
03A	060104-310-O South	Modified TO-15	4.5 "Hg
03AA	060104-310-O South Duplicate	Modified TO-15	4.5 "Hg
04A	Lab Blank	Modified TO-15	NA
05A	CCV	Modified TO-15	NA
06A	LCS	Modified TO-15	NA

CERTIFIED BY:

Sinda d. Fruman

DATE: 06/17/04

Laboratory Director

Certification numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE Modified TO-15 ENSR

Workorder# 0406075E

Three 6 Liter Summa Canister samples were received on June 03, 2004. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	TO-14A/TO-15	ATL Modifications
BFB acceptance criteria	CLP protocol (TO-15)	SW-846 protocol
Concentration of IS spike	10 ppbv (TO-15)	25 ppbv
Dilutions for initial calibration	Dynamic dilutions or static using canisters	Syringe dilutions
Daily CCV	= 30% Difference</td <td><!--= 30% Difference with two allowed out up to </=40%.; flag<br-->and narrate outliers</td>	= 30% Difference with two allowed out up to </=40%.; flag<br and narrate outliers
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43.	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58.
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Sample Drying System	Nafion Dryer (TO-14A)	Multisorbent
Sample Load Volume	400 mL (TO-14A)	Varied to 0.2 L.
Blank Acceptance Criteria.	< 0.20 ppbv (TO-14A)	< RL
BFB Absolute Abundance Criteria (TO-14A)	Within 10% of that from the previous day.	CCV internal standard area counts are compared to ICAL, corrective action for > 40 % D.
Initial Calibration	= 30 %RSD (TO-14A)</td <td><!--= 30 % RSD with 2 compounds allowed out to </= 40 % RSD.</td--></td>	= 30 % RSD with 2 compounds allowed out to </= 40 % RSD.</td
IS Recoveries	Within 40% of mean over ICAL for blanks, and within 40 % of daily CCV for samples. (TO-15)	Within 40% of CCV recoveries for blank and samples.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on sample 0406075E-02A due to the presence of high level non-target species.

The daily calibration standard (CCV) analyzed on 6-11-04 did not meet laboratory required acceptance criteria of 70-130% recovery for Bromoform. Recovery was high and no hits were detected in the associated samples. There was no impact on sample results.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated Peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue

SAMPLE NAME: 060104-310-B East

ID#: 0406075E-01A

acetta District	Soft attack of the Bases, and a soft at a soft attack of the soft at a			
Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.80	Not Detected	4.0	Not Detected
Freon 114	0.80	Not Detected	5.7	Not Detected
Chloromethane	3.2	Not Detected	6.8	Not Detected
Vinyl Chloride	0.80	Not Detected	2.1	Not Detected
1,3-Butadiene	0.80	Not Detected	1.8	Not Detected
Bromomethane	0.80	Not Detected	3.2	Not Detected
Chloroethane	0.80	Not Detected	2.2	Not Detected
Freon 11	0.80	Not Detected	4.6	Not Detected
Ethanol	3.2	22	6.2	42
Freon 113	0.80	Not Detected	6.3	Not Detected
1,1-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Acetone	3.2	7.3	7.8	18
2-Propanol	3.2	5.1	8.0	13
Carbon Disulfide	0.80	Not Detected	2.5	Not Detected
3-Chloropropene	3.2	Not Detected	10	Not Detected
Methylene Chloride	0.80	Not Detected	2.8	Not Detected
Methyl tert-butyl ether	0.80	Not Detected	2.9	Not Detected
trans-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Hexane	0.80	74	2.9	260
Vinyl Acetate	3.2	Not Detected	12	Not Detected
1,1-Dichloroethane	0.80	Not Detected	3.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.80	2.5	2.4	7.6
cis-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Tetrahydrofuran	0.80	Not Detected	2.4	Not Detected
Chloroform	0.80	Not Detected	4.0	Not Detected
1,1,1-Trichloroethane	0.80	Not Detected	4.5	Not Detected
Cyclohexane	0.80	16	2.8	57
Carbon Tetrachloride	0.80	Not Detected	5.1	Not Detected
2,2,4-Trimethylpentane	0.80	200	3.8	980
Benzene	0.80	1.9	2.6	6.2
1,2-Dichloroethane	0.80	Not Detected	3.3	Not Detected
Heptane	0.80	17	3.4	71
Trichloroethene	0.80	Not Detected	4.4	Not Detected
1,2-Dichloropropane	0.80	Not Detected	3.8	Not Detected
1,4-Dioxane	3.2	Not Detected	12	Not Detected
Bromodichloromethane	0.80	Not Detected	5.5	Not Detected
cis-1,3-Dichloropropene	0.80	Not Detected	3.7	Not Detected
4-Methyl-2-pentanone	0.80	Not Detected	3.4	Not Detected
Toluene	0.80	1.5	3.1	5.9
trans-1,3-Dichloropropene	0.80	Not Detected	3.7	Not Detected
1,1,2-Trichloroethane	0.80	Not Detected	4.5	Not Detected
Tetrachloroethene	0.80	Not Detected	5.6	Not Detected

SAMPLE NAME: 060104-310-B East

ID#: 0406075E-01A

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Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Hexanone	3.2	Not Detected	13	Not Detected
Dibromochloromethane	0.80	Not Detected	7.0	Not Detected
1,2-Dibromoethane (EDB)	0.80	Not Detected	6.3	Not Detected
Chlorobenzene	0.80	Not Detected	3.8	Not Detected
Ethyl Benzene	0.80	Not Detected	3.6	Not Detected
m,p-Xylene	0.80	0.83	3.6	3.7
o-Xylene	0.80	Not Detected	3.6	Not Detected
Styrene	0.80	Not Detected	3.5	Not Detected
Bromoform	0.80	Not Detected	8.4	Not Detected
Cumene	0.80	Not Detected	4.0	Not Detected
1,1,2,2-Tetrachloroethane	0.80	Not Detected	5.6	Not Detected
Propylbenzene	0.80	Not Detected	4.0	Not Detected
4-Ethyltoluene	0.80	Not Detected	4.0	Not Detected
1,3,5-Trimethylbenzene	0.80	Not Detected	4.0	Not Detected
1,2,4-Trimethylbenzene	0.80	Not Detected	4.0	Not Detected
1,3-Dichlorobenzene	0.80	Not Detected	4.9	Not Detected
1,4-Dichlorobenzene	0.80	Not Detected	4.9	Not Detected
alpha-Chlorotoluene	0.80	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.80	Not Detected	4.9	Not Detected
1,2,4-Trichlorobenzene	3.2	Not Detected	24	Not Detected
Hexachlorobutadiene	3.2	Not Detected	35	Not Detected

		Method
Surrogates	%Recovery	Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofiuorobenzene	99	70-130

SAMPLE NAME: 060104-310-B West

ID#: 0406075E-02A

idioini t iidii 1924:		EDITOLEOUS SILVING SILVING		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	2.9	Not Detected	15	Not Detected
Freon 114	2.9	Not Detected	21	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	2.9	Not Detected	7.6	Not Detected
1,3-Butadiene	2.9	Not Detected	6.6	Not Detected
Bromomethane	2.9	Not Detected	12	Not Detected
Chloroethane	2.9	Not Detected	7.8	Not Detected
Freon 11	2.9	Not Detected	17	Not Detected
Ethanol	12	43	22	82
Freon 113	2.9	Not Detected	23	Not Detected
1,1-Dichloroethene	2.9	Not Detected	12	Not Detected
Acetone	12	Not Detected	28	Not Detected
2-Propanol	12	Not Detected	29	Not Detected
Carbon Disulfide	2.9	Not Detected	9.2	Not Detected
3-Chloropropene	12	Not Detected	37	Not Detected
Methylene Chloride	2.9	Not Detected	10	Not Detected
Methyl tert-butyl ether	2.9	Not Detected	11	Not Detected
trans-1,2-Dichloroethene	2.9	Not Detected	12	Not Detected
Hexane	2.9	120	10	420
Vinyl Acetate	12	Not Detected	42	Not Detected
1,1-Dichloroethane	2.9	Not Detected	12	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.9	Not Detected	8.8	Not Detected
cis-1,2-Dichloroethene	2.9	Not Detected	12	Not Detected
Tetrahydrofuran	2.9	Not Detected	8.8	Not Detected
Chloroform	2.9	Not Detected	14	Not Detected
1,1,1-Trichloroethane	2.9	Not Detected	16	Not Detected
Cyclohexane	2.9	28	10	99
Carbon Tetrachloride	2.9	Not Detected	19	Not Detected
2,2,4-Trimethylpentane	2.9	310	14	1500
Benzene	2.9	6.4	9.5	21
1,2-Dichloroethane	2.9	Not Detected	12	Not Detected
Heptane	2.9	30	12	120
Trichloroethene	2.9	Not Detected	16	Not Detected
1,2-Dichloropropane	2.9	Not Detected	14	Not Detected
1,4-Dioxane	12	Not Detected	43	Not Detected
Bromodichloromethane	2.9	Not Detected	20	Not Detected
cis-1,3-Dichloropropene	2.9	Not Detected	13	Not Detected
4-Methyl-2-pentanone	2.9	Not Detected	12	Not Detected
Toluene	2.9	3.0	11	12
trans-1,3-Dichloropropene	2.9	Not Detected	13	Not Detected
1,1,2-Trichloroethane	2.9	Not Detected	16	Not Detected
Tetrachloroethene	2.9	Not Detected	20	Not Detected

SAMPLE NAME: 060104-310-B West

ID#: 0406075E-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Description (Commence of the Commence of the C	and the second second		DELEGIANDA PROPERTY A		
Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
2-Hexanone	12	Not Detected	49	Not Detected	
Dibromochloromethane	2.9	Not Detected	25	Not Detected	
1,2-Dibromoethane (EDB)	2.9	Not Detected	23	Not Detected	
Chlorobenzene	2.9	Not Detected	14	Not Detected	
Ethyl Benzene	2.9	Not Detected	13	Not Detected	
m,p-Xylene	2.9	Not Detected	13	Not Detected	
o-Xylene	2.9	Not Detected	13	Not Detected	
Styrene	2.9	Not Detected	13	Not Detected	
Bromoform	2.9	Not Detected	31	Not Detected	
Cumene	2.9	Not Detected	14	Not Detected	
1,1,2,2-Tetrachloroethane	2.9	Not Detected	20	Not Detected	
Propylbenzene	2.9	Not Detected	14	Not Detected	
4-Ethyltoluene	2.9	Not Detected	14	Not Detected	
1,3,5-Trimethylbenzene	2.9	Not Detected	14	Not Detected	
1,2,4-Trimethylbenzene	2.9	Not Detected	14	Not Detected	
1,3-Dichlorobenzene	2.9	Not Detected	18	Not Detected	
1,4-Dichlorobenzene	2.9	Not Detected	18	Not Detected	
alpha-Chlorotoluene	2.9	Not Detected	15	Not Detected	
1,2-Dichlorobenzene	2.9	Not Detected	18	Not Detected	
1,2,4-Trichlorobenzene	12	Not Detected	88	Not Detected	
Hexachlorobutadiene	12	Not Detected	130	Not Detected	

		Method
Surrogates	%Recovery	Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	100	70-130

SAMPLE NAME: 060104-310-O South

ID#: 0406075E-03A

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Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.79	Not Detected	4.0	Not Detected
Freon 114	0.79	Not Detected	5.6	Not Detected
Chloromethane	3.2	Not Detected	6.6	Not Detected
Vinyl Chloride	0.79	Not Detected	2.0	Not Detected
1,3-Butadiene	0.79	Not Detected	1.8	Not Detected
Bromomethane	0.79	Not Detected	3.1	Not Detected
Chloroethane	0.79	Not Detected	2.1	Not Detected
Freon 11	0.79	Not Detected	4.5	Not Detected
Ethanol	3.2	Not Detected	6.0	Not Detected
Freon 113	0.79	Not Detected	6.2	Not Detected
1,1-Dichloroethene	0.79	Not Detected	3.2	Not Detected
Acetone	3.2	Not Detected	7.6	Not Detected
2-Propanol	3.2	Not Detected	7.9	Not Detected
Carbon Disulfide	0.79	Not Detected	2.5	Not Detected
3-Chloropropene	3.2	Not Detected	10	Not Detected
Methylene Chloride	0.79	Not Detected	2.8	Not Detected
Methyl tert-butyl ether	0.79	Not Detected	2.9	Not Detected
trans-1,2-Dichloroethene	0.79	Not Detected	3.2	Not Detected
Hexane	0.79	Not Detected	2.8	Not Detected
Vinyl Acetate	3.2	Not Detected	11	Not Detected
1,1-Dichloroethane	0.79	Not Detected	3.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.79	Not Detected	2.4	Not Detected
cis-1,2-Dichloroethene	0.79	Not Detected	3.2	Not Detected
Tetrahydrofuran	0.79	Not Detected	2.4	Not Detected
Chloroform	0.79	Not Detected	3.9	Not Detected
1,1,1-Trichloroethane	0.79	Not Detected	4.4	Not Detected
Cyclohexane	0.79	Not Detected	2.8	Not Detected
Carbon Tetrachloride	0.79	Not Detected	5.0	Not Detected
2,2,4-Trimethylpentane	0.79	Not Detected	3.8	Not Detected
Benzene	0.79	Not Detected	2.6	Not Detected
1,2-Dichloroethane	0.79	Not Detected	3.2	Not Detected
Heptane	0.79	Not Detected	3.3	Not Detected
Trichloroethene	0.79	Not Detected	4.3	Not Detected
1,2-Dichloropropane	0.79	Not Detected	3.7	Not Detected
1,4-Dioxane	3.2	Not Detected	12	Not Detected
Bromodichloromethane	0.79	Not Detected	5.4	Not Detected
cis-1,3-Dichloropropene	0.79	Not Detected	3.6	Not Detected
4-Methyl-2-pentanone	0.79	Not Detected	3.3	Not Detected
Toluene	0.79	Not Detected	3.0	Not Detected
trans-1,3-Dichloropropene	0.79	Not Detected	3.6	Not Detected
1,1,2-Trichloroethane	0.79	Not Detected	4.4	Not Detected
Tetrachloroethene	0.79	Not Detected	5.4	Not Detected

SAMPLE NAME: 060104-310-O South

ID#: 0406075E-03A

7 (1914) 2. Table	2031	A comment of the	1124.120	Alle albeg et
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Hexanone	3.2	Not Detected	13	Not Detected
Dibromochloromethane	0.79	Not Detected	6.8	Not Detected
1,2-Dibromoethane (EDB)	0.79	Not Detected	6.2	Not Detected
Chlorobenzene	0.79	Not Detected	3.7	Not Detected
Ethyl Benzene	0.79	Not Detected	3.5	Not Detected
n,p-Xylene	0.79	Not Detected	3.5	Not Detected
o-Xylene	0.79	Not Detected	3.5	Not Detected
Styrene	0.79	Not Detected	3.4	Not Detected
Bromoform	0.79	Not Detected	8.3	Not Detected
Cumene	0.79	Not Detected	3.9	Not Detected
1,1,2,2-Tetrachloroethane	0.79	Not Detected	5.5	Not Detected
Propylbenzene	0.79	Not Detected	3.9	Not Detected
4-Ethyltoluene	0.79	Not Detected	3.9	Not Detected
1,3,5-Trimethylbenzene	0.79	Not Detected	3.9	Not Detected
1,2,4-Trimethylbenzene	0.79	Not Detected	3.9	Not Detected
1,3-Dichlorobenzene	0.79	Not Detected	4.8	Not Detected
1,4-Dichlorobenzene	0.79	Not Detected	4.8	Not Detected
alpha-Chlorotoluene	0.79	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.79	Not Detected	4.8	Not Detected
1,2,4-Trichlorobenzene	3.2	Not Detected	24	Not Detected
Hexachlorobutadiene	3.2	Not Detected	34	Not Detected
Container Type: 6 Liter Summa	a Canister			Method

		metriou
Surrogates	%Recovery	Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	99	70-130

SAMPLE NAME: 060104-310-O South Duplicate

ID#: 0406075E-03AA

Fib Vaid Bulsa - 1			en este <mark>sionalisticale.</mark>	
Commond	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Freon 12	0.79	Not Detected	4.0	Not Detected
Freon 114	0.79	Not Detected	5.6	Not Detected
Chloromethane	3.2	Not Detected	6.6	Not Detected
Vinyl Chloride	0.79	Not Detected	2.0	Not Detected
1,3-Butadiene	0.79	Not Detected	1.8	Not Detected
Bromomethane	0.79	Not Detected	3.1	Not Detected
Chloroethane	0.79	Not Detected	2.1	Not Detected
Freon 11	0.79	Not Detected	4.5	Not Detected
Ethanol	3.2	Not Detected	6.0	Not Detected
Freon 113	0.79	Not Detected	6.2	Not Detected
1,1-Dichloroethene	0.79	Not Detected	3.2	Not Detected
Acetone	3.2	Not Detected	7.6	Not Detected
2-Propanol	3.2	Not Detected	7.9	Not Detected
Carbon Disulfide	0.79	Not Detected	2.5	Not Detected
3-Chloropropene	3.2	Not Detected	10	Not Detected
Methylene Chloride	0.79	Not Detected	2.8	Not Detected
Methyl tert-butyl ether	0.79	Not Detected	2.9	Not Detected
trans-1,2-Dichloroethene	0.79	Not Detected	3.2	Not Detected
Hexane	0.79	Not Detected	2.8	Not Detected
Vinyl Acetate	3.2	Not Detected	11	Not Detected
1,1-Dichloroethane	0.79	Not Detected	3.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.79	Not Detected	2.4	Not Detected
cis-1,2-Dichloroethene	0.79	Not Detected	3.2	Not Detected
Tetrahydrofuran	0.79	Not Detected	2.4	Not Detected
Chloroform	0.79	Not Detected	3.9	Not Detected
1,1,1-Trichloroethane	0.79	Not Detected	4.4	Not Detected
Cyclohexane	0.79	Not Detected	2.8	Not Detected
Carbon Tetrachloride	0.79	Not Detected	5.0	Not Detected
2,2,4-Trimethylpentane	0.79	Not Detected	3.8	Not Detected
Benzene	0.79	0.80	2.6	2.6
1,2-Dichloroethane	0.79	Not Detected	3.2	Not Detected
Heptane	0.79	Not Detected	3.3	Not Detected
Trichloroethene	0.79	Not Detected	4.3	Not Detected
1,2-Dichloropropane	0.79	Not Detected	3.7	Not Detected
1,4-Dioxane	3.2	Not Detected	12	Not Detected
Bromodichloromethane	0.79	Not Detected	5.4	Not Detected
cis-1,3-Dichloropropene	0.79	Not Detected	3.6	Not Detected
4-Methyl-2-pentanone	0.79	Not Detected	3.3	Not Detected
Toluene	0.79	Not Detected	3.0	Not Detected
	0.79	Not Detected	3.6	Not Detected Not Detected
trans-1,3-Dichloropropene		***************************************	· · · · · · · · · · · · · · · · · · ·	······································
1,1,2-Trichloroethane	0.79	Not Detected	4.4 5.4	Not Detected
Tetrachloroethene	0.79	Not Detected	5.4	Not Detected

SAMPLE NAME: 060104-310-O South Duplicate

ID#: 0406075E-03AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Property of the second	5225			
All Antidon (1995) Song to the State of the	hopet. Something of a basical basical and a state of the control of the control of the control of the control of the c	de est de maria en la compansión de la comp		13.33
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Hexanone	3.2	Not Detected	13	Not Detected
Dibromochloromethane	0.79	Not Detected	6.8	Not Detected
1,2-Dibromoethane (EDB)	0.79	Not Detected	6.2	Not Detected
Chlorobenzene	0.79	Not Detected	3.7	Not Detected
Ethyl Benzene	0.79	Not Detected	3.5	Not Detected
m,p-Xylene	0.79	Not Detected	3.5	Not Detected
o-Xylene	0.79	Not Detected	3.5	Not Detected
Styrene	0.79	Not Detected	3.4	Not Detected
Bromoform	0.79	Not Detected	8.3	Not Detected
Cumene	0.79	Not Detected	3.9	Not Detected
1,1,2,2-Tetrachloroethane	0.79	Not Detected	5.5	Not Detected
Propylbenzene	0.79	Not Detected	3.9	Not Detected
4-Ethyltoluene	0.79	Not Detected	3.9	Not Detected
1,3,5-Trimethylbenzene	0.79	Not Detected	3.9	Not Detected
1,2,4-Trimethylbenzene	0.79	Not Detected	3.9	Not Detected
1,3-Dichlorobenzene	0.79	Not Detected	4.8	Not Detected
1,4-Dichlorobenzene	0.79	Not Detected	4.8	Not Detected
alpha-Chlorotoluene	0.79	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.79	Not Detected	4.8	Not Detected
1,2,4-Trichlorobenzene	3.2	Not Detected	24	Not Detected
Hexachlorobutadiene	3.2	Not Detected	34	Not Detected

		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	96	70-130	
1,2-Dichloroethane-d4	97	70-130	
4-Bromofluorobenzene	101	70-130	

SAMPLE NAME: Lab Blank

ID#: 0406075E-04A

Pide Ingle Die Klad	Our NO			51, 51400,100713-51
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.6	Not Detected
Chloromethane	2.0	Not Detected	4.2	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	2.0	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.9	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	5.0	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.4	Not Detected
Methylene Chloride	0.50	Not Detected	1.8	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1.2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
	2.0	Not Detected	7.2	Not Detected
Vinyl Acetate	0.50	Not Detected	2.0	Not Detected
1,1-Dichloroethane 2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
	0.50	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected Not Detected	1.5	Not Detected
Tetrahydrofuran Chloroform	0.50	Not Detected Not Detected	2.5	Not Detected
	0.50	Not Detected Not Detected	2.8	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	1.7	Not Detected
Cyclohexane	0.50		3.2	Not Detected
Carbon Tetrachloride		Not Detected	3.2 2.4	Not Detected
2,2,4-Trimethylpentane	0.50 0.50	Not Detected	1.6	Not Detected
Benzene		Not Detected		•••••••••
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.1	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.3	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.1	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.8	Not Detected
Tetrachioroethene	0.50	Not Detected	3.4	Not Detected

SAMPLE NAME: Lab Blank

ID#: 0406075E-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Photos References and the control	50 000		Direct Below Direct State (1987)	
Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Hexanone	2.0	Not Detected	8.3	Not Detected
Dibromochloromethane	0.50	Not Detected	4.3	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.9	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.2	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.5	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.5	Not Detected
Propylbenzene	0.50	Not Detected	2.5	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.5	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	22	Not Detected

Container Type: NA - Not Applicable

.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	94	70-130	
1,2-Dichloroethane-d4	99	70-130	
4-Bromofluorobenzene	96	70-130	

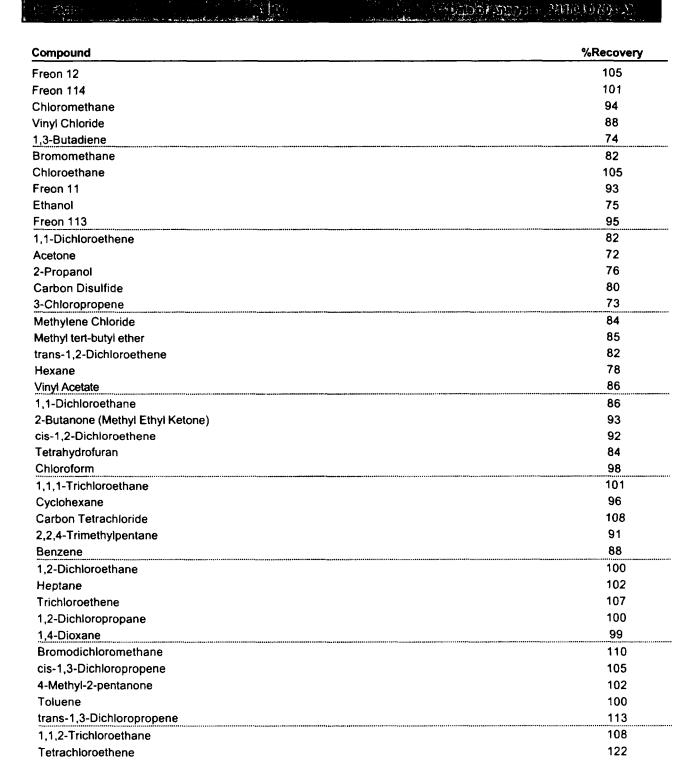
SAMPLE NAME: CCV

ID#: 0406075E-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

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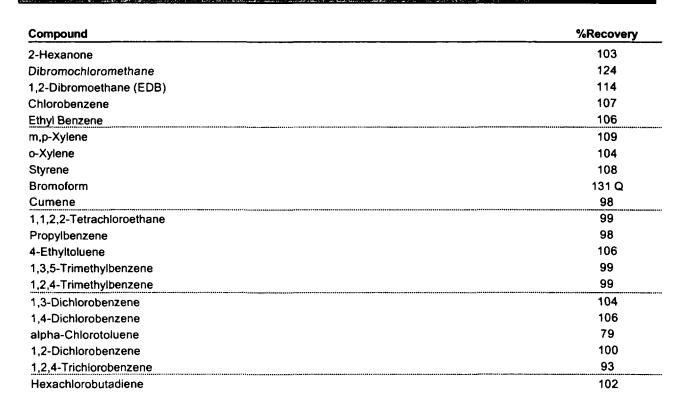
District explosion in



SAMPLE NAME: CCV

ID#: 0406075E-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN



Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

2		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	97	70-130	
1,2-Dichloroethane-d4	99	70-130	
4-Bromofluorobenzene	100	70-130	

SAMPLE NAME: LCS

ID#: 0406075E-06A

Compound	%Recovery
Freon 12	113
Freon 114	105
Chloromethane	99
Vinyl Chloride	99
1,3-Butadiene	75
Bromomethane	92
Chloroethane	125
Freon 11	100
Ethanol	86
Freon 113	96
1,1-Dichloroethene	86
Acetone	78
2-Propanol	71
Carbon Disulfide	86
3-Chloropropene	70
Methylene Chloride	81
Methyl tert-butyl ether	92
trans-1,2-Dichloroethene	88
Hexane	85
Vinyl Acetate	102
1,1-Dichloroethane	91
2-Butanone (Methyl Ethyl Ketone)	99
cis-1,2-Dichloroethene	94
Tetrahydrofuran	98
Chloroform	105
1,1,1-Trichloroethane	116
Cyclohexane	103
Carbon Tetrachloride	120
2,2,4-Trimethylpentane	84
Benzene	106
1,2-Dichloroethane	117
Heptane	108
Trichloroethene	124
1,2-Dichloropropane	121
1,4-Dioxane	112
Bromodichloromethane	115
cis-1,3-Dichloropropene	125
4-Methyl-2-pentanone	120
Toluene	110
trans-1,3-Dichloropropene	133 Q
1,1,2-Trichloroethane	119
Tetrachloroethene	130

SAMPLE NAME: LCS

ID#: 0406075E-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN



Compound	%Recovery
2-Hexanone	123
Dibromochloromethane	126
1,2-Dibromoethane (EDB)	116
Chlorobenzene	116
Ethyl Benzene	110
m,p-Xylene	112
o-Xylene	106
Styrene	118
Bromoform	119
Cumene	93
1,1,2,2-Tetrachloroethane	110
Propylbenzene	69
4-Ethyltoluene	107
1,3,5-Trimethylbenzene	98
1,2,4-Trimethylbenzene	92
1,3-Dichlorobenzene	111
1,4-Dichlorobenzene	106
alpha-Chlorotoluene	110
1,2-Dichlorobenzene	108
1,2,4-Trichlorobenzene	124
Hexachlorobutadiene	124

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

The state of the s		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	97	70-130	
1,2-Dichloroethane-d4	94	70-130	
4-Bromofluorobenzene	98	70-130	



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Reinquishing signature on this document indicates that sample is being shipped in complaince FOLSOM, CA 95630-4719
with all applicable local. State, Federal, rational, and international laws, regulations and (916) 985-1000. FAX: (916) 985-1020. harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, relaced to the collection. In andling, or shapping of samples, D.O.T. Honline (600) 467-4922. endinances of any kind. Air Toxics Limited assumes no liability with respect to the collection. handling or shipping of these samples. Remoushing signature also indicates agreement to rold

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da d	Field Sample I.D.	Date & Time	Analy	Analyses Requested	Canister Pressure / Vacuum	re / Vacuum
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APPENDIX B

AIR TOXICS LTD. - LABORATORY REPORT 0406121

Field Sample ID	Sample Location Description	Type/Container	Laboratory Sample ID	Analysis	Method
MW-3 Grab	Vapor sample from monitoring	Soil Vapor/Grab Summa	0406121A-01A	VOCs	TO-15
well HMW-3 located on the north end of North Olive street; sample	Canister	0406121ARI-01A	VOCs	TO-15	
	1	0406121B-01A	Benzene rerun	Mod. TO-15	
	collected inside well casing	1	0406121C-01A	Methane	ASTM D-1946
approximately 1 foot below.	approximately 1 foot below.		0406121D-01A	Additional VOCs	@ 82 GC/FID
			0406121E-01A	VOCs	TO-15

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0406121A

Work Order Summary

CLIENT:

Ms. Robin Schilling

BILL TO:

Ms. Robin Schilling

ENSR 27755 Diehl Road **ENSR**

27755 Diehl Road

Suite 100

Suite 100 Warrenville, IL 60555

Warrenville, IL 60555

PHONE:

630-836-1700

P.O. #

2017826

FAX:

630-836-1711

PROJECT#

01005093 Hartford ICC

DATE RECEIVED:

6/7/04

CONTACT: DeDe Dodge

DATE COMPLETED:

6/28/04

RECEIPT FRACTION# NAME TEST YAC/PRES. 01A MW-3 Grab Modified TO-15/TICs 6.0 "Hg 02A Lab Blank Modified TO-15/TICs NA 03A Modified TO-15/TICs **CCV** NA

CERTIFIED BY:

Sinda d. Fruman

DATE: 06/28/04

Laboratory Director

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE Ozone Precursors by Modified TO-15 ENSR Workorder# 0406121A

One 6 Liter Summa Canister sample was received on June 07, 2004. The laboratory performed analysis for Ozone Precursors via Modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	TO-15	ATL Modifications
BFB acceptance criteria	CLP protocol	SW-846 protocol
IS Recoveries	60- 140% of mean over ICAL for blanks, and w/in 60- 140% of daily CCV for samples.	Within 60-140% of CCV recoveries for blank and samples.
Dilutions for initial calibration	Dynamic dilutions or static using canisters	Syringe dilutions
Daily CCV	70 - 130 %	60-140% for 90% of the target compounds
Concentration of IS spike	10 ppbv	25 ppbv
Concentration of IS spike	10 ppbv	25 ppbv

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The reported CCV for each daily batch may be derived from more than one individual analytical file due to the client's request for non-standard compounds.

Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

Specific analytes that are requested by the client to be reported as tentatively identified compounds (TICs) are determined by searching for each compound's characteristic spectra. If no chromatographic peak displaying the compound specific spectra exists, then the TIC is reported as not detected. Please note that the laboratory has not evaluated the stability of any heretofore tentatively identified compound in the vapor phase or for efficiency of recovery through the analytical system.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction no performed).

- J Estimated value.
- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the reporting limit.
- N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

SAMPLE NAME: MW-3 Grab

ID#: 0406121A-01A

建设为工 公	121 5210		र्वेद्धाः वीक्षात्रः ।	
Digital Control of the Control of th	A CONTRACTOR OF THE PARTY OF TH	را الراب والاير القرب الموجد علية	THE STATE OF THE	9210 (0310)
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Benzene	2700	3400	8700	11000
Ethyl Benzene	2700	Not Detected	12000	Not Detected
Styrene	2700	Not Detected	12000	Not Detected
Toluene	2700	Not Detected	10000	Not Detected
1,2,4-Trimethylbenzene	2700	Not Detected	13000	Not Detected
1,3,5-Trimethylbenzene	2700	Not Detected	13000	Not Detected
m,p-Xylene	2700	Not Detected	12000	Not Detected
o-Xylene	2700	Not Detected	12000	Not Detected
Butane	11000	230000	26000	550000
1-Butene	11000	Not Detected	25000	Not Detected
cis-2-Butene	11000	Not Detected	25000	Not Detected
trans-2-butene	11000	Not Detected	25000	Not Detected
Cyclohexane	11000	10000 J	38000	37000 J
Cyclopentane	11000	12000	31000	37000
2,2-Dimethylbutane	11000	Not Detected	38000	Not Detected
2,3-Dimethylbutane	11000	22000	38000	79000
2,3-Dimethylpentane	11000	18000	45000	73000
2,4-Dimethylpentane	11000	12000	45000	50000
Heptane	11000	Not Detected	45000	Not Detected
Hexane	11000	32000	38000	110000
Isoprene	11000	Not Detected	30000	Not Detected
Cumene	11000	Not Detected	54000	Not Detected
Isopentane	11000	190000	32000	580000
Methylcyclohexane	11000	Not Detected	44000	Not Detected
Methylcyclopentane	11000	33000	38000	120000
2-Methylheptane	11000	Not Detected	51000	Not Detected
3-Methylheptane	11000	Not Detected	51000	Not Detected
2-Methylhexane	11000	15000	45000	61000
3-Methylhexane	11000	15000	45000	63000
2-Methylpentane	11000	87000	38000	310000
3-Methylpentane	11000	57000	38000	200000
Isobutane	11000	140000	26000	340000
Nonane	11000	Not Detected	57000	Not Detected
Octane	11000	Not Detected	51000	Not Detected
Pentane	11000	130000	32000	400000
1-Pentene	11000	Not Detected	31000	Not Detected
cis-2-Pentene	11000	Not Detected	31000	Not Detected
trans-2-Pentene	11000	Not Detected	31000	Not Detected
Propylbenzene	11000	Not Detected	54000	Not Detected
2,2,4-Trimethylpentane	11000	10000 J	51000	50000 J
	11000	Not Detected	51000	Not Detected
2,3,4-Trimethylpentane 1-Hexene	11000	Not Detected	38000	Not Detected

SAMPLE NAME: MW-3 Grab

ID#: 0406121A-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Piločija 19. 715	317		dada aktori veran. Park i kapana 201	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
3-Ethyltoluene	11000	Not Detected	54000	Not Detected
4-Ethyltoluene	11000	Not Detected	54000	Not Detected
2-Ethyltoluene	11000	Not Detected	54000	Not Detected
Decane	11000	Not Detected	63000	Not Detected
1,2,3-Trimethylbenzene	11000	Not Detected	54000	Not Detected
1,3-Diethylbenzene	11000	Not Detected	60000	Not Detected
1,4-Diethylbenzene	11000	Not Detected	60000	Not Detected
Undecane	11000	Not Detected	70000	Not Detected
cis-2-Hexene	27000	Not Detected	94000	Not Detected
trans-2-Hexene	27000	Not Detected	94000	Not Detected
alpha-Pinene	27000	Not Detected	150000	Not Detected
beta-Pinene	27000	Not Detected	150000	Not Detected
Cyclopentene	11000	Not Detected	30000	Not Detected
1-Undecene	27000	Not Detected	170000	Not Detected
1-Decene	27000	Not Detected	160000	Not Detected
1-Nonene	11000	Not Detected	56000	Not Detected
1-Octene	11000	Not Detected	50000	Not Detected
1-Heptene	11000	Not Detected	44000	Not Detected
1,3-Butadiene	2700	Not Detected	6000	Not Detected
TPH ref. to Gasoline (MW=100)	54000	700000	220000	2900000

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Dodecane	112-40-3	NA	Not Detected
1-Dodecene	112-41-4	NA	Not Detected
Tridecane	629-50-5	NA	Not Detected
J = Estimated value.			
Container Type: 6 Liter Summa Canister			

Container	Type:	6 Liter	Summa	Canister

••		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	102	70-130

SAMPLE NAME: Lab Blank

ID#: 0406121A-02A

Strategic Of Target	40823.			A Poly (Sept.)
Compound	Røt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.50	Not Detected	1.6	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.2	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
,2,4-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected
,3,5-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected
n,p-Xylene	0.50	Not Detected	2.2	Not Detected
-Xylene	0.50	Not Detected	2.2	Not Detected
Butane	2.0	Not Detected	4.8	Not Detected
I-Butene	2.0	Not Detected	4.7	Not Detected
is-2-Butene	2.0	Not Detected	4.7	Not Detected
rans-2-butene	2.0	Not Detected	4.7	Not Detected
Cyclohexane	2.0	Not Detected	7.0	Not Detected
Cyclopentane	2.0	Not Detected	5.8	Not Detected
2,2-Dimethylbutane	2.0	Not Detected	7.2	Not Detected
2,3-Dimethylbutane	2.0	Not Detected	7.2	Not Detected
2,3-Dimethylpentane	2.0	Not Detected	8.3	Not Detected
2,4-Dimethylpentane	2.0	Not Detected	8.3	Not Detected
Heptane	2.0	Not Detected	8.3	Not Detected
Hexane	2.0	Not Detected	7.2	Not Detected
Isoprene	2.0	Not Detected	5.7	Not Detected
Cumene	2.0	Not Detected	10	Not Detected
Isopentane	2.0	Not Detected	6.0	Not Detected
Methylcyclohexane	2.0	Not Detected	8.2	Not Detected
Methylcyclopentane	2.0	Not Detected	7.0	Not Detected
2-Methylheptane	2.0	Not Detected	9.5	Not Detected
3-Methylheptane	2.0	Not Detected	9.5	Not Detected
2-Methylhexane	2.0	Not Detected	8.3	Not Detected
3-Methylhexane	2.0	Not Detected	8.3	Not Detected
2-Methylpentane	2.0	Not Detected	7.2	Not Detected
3-Methylpentane	2.0	Not Detected	7.2	Not Detected
Isobutane	2.0	Not Detected	4.8	Not Detected
Nonane	2.0	Not Detected	11	Not Detected
Octane	2.0	Not Detected	9.5	Not Detected
Pentane	2.0	Not Detected	6.0	Not Detected
1-Pentene	2.0	Not Detected	5.8	Not Detected
cis-2-Pentene	2.0	Not Detected	5.8	Not Detected
trans-2-Pentene	2.0	Not Detected	5.8	Not Detected
Propylbenzene	2.0	Not Detected	10	Not Detected
2,2,4-Trimethylpentane	2.0	Not Detected	9.5	Not Detected
2,3,4-Trimethylpentane	2.0	Not Detected	9.5	Not Detected
1-Hexene	2.0	Not Detected	7.0	Not Detected

SAMPLE NAME: Lab Blank

ID#: 0406121A-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

	3030		ridiserations did Relevantable	n Wyllian et e
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
3-Ethyltoluene	2.0	Not Detected	10	Not Detected
1-Ethyltoluene	2.0	Not Detected	10	Not Detected
2-Ethyltoluene	2.0	Not Detected	10	Not Detected
Decane	2.0	Not Detected	12	Not Detected
1,2,3-Trimethylbenzene	2.0	Not Detected	10	Not Detected
1,3-Diethylbenzene	2.0	Not Detected	11	Not Detected
1,4-Diethylbenzene	2.0	Not Detected	11	Not Detected
Undecane	2.0	Not Detected	13	Not Detected
cis-2-Hexene	5.0	Not Detected	17	Not Detected
trans-2-Hexene	5.0	Not Detected	17	Not Detected
alpha-Pinene	5.0	Not Detected	28	Not Detected
beta-Pinene	5.0	Not Detected	28	Not Detected
Cyclopentene	2.0	Not Detected	5.7	Not Detected
1-Undecene	5.0	Not Detected	32	Not Detected
1-Decene	5.0	Not Detected	29	Not Detected
1-Nonene	2.0	Not Detected	10	Not Detected
1-Octene	2.0	Not Detected	9.3	Not Detected
1-Heptene	2.0	Not Detected	8.2	Not Detected
1,3-Butadiene	0.50	Not Detected	1,1	Not Detected
TPH ref. to Gasoline (MW=100)	10	Not Detected	42	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Dodecane	112-40-3	NA	Not Detected
1-Dodecene	112-41-4	NA	Not Detected
Tridecane	629-50-5	NA	Not Detected
Container Type: NA - Not Applicable			
Surrogates	%Recovery		Method Limits
1,2-Dichloroethane-d4	110		70-130

Toluene-d8

4-Bromofluorobenzene

100

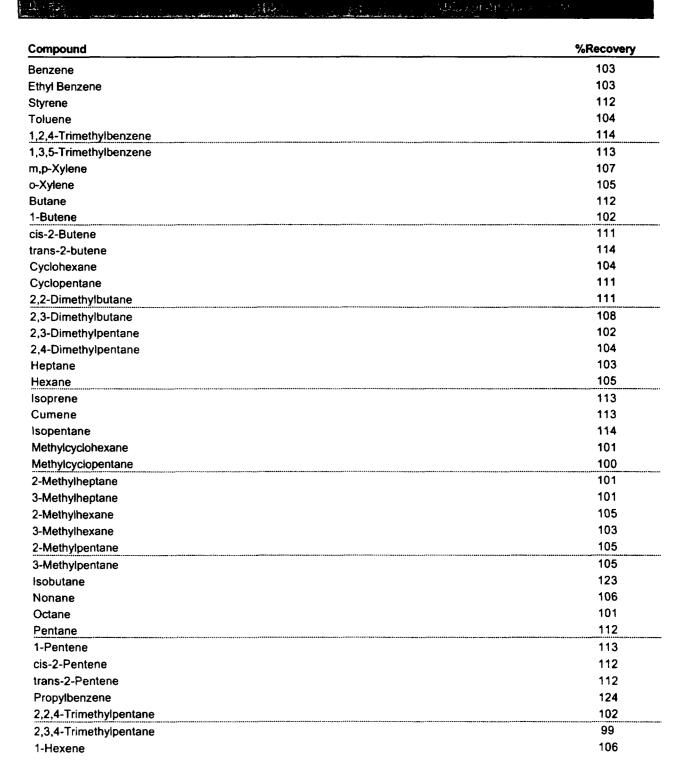
100

70-130

70-130

SAMPLE NAME: CCV

ID#: 0406121A-03A



SAMPLE NAME: CCV

ID#: 0406121A-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN



Compound	%Recovery
3-Ethyltoluene	106
4-Ethyltoluene	138 Q
2-Ethyltoluene	120
Decane	108
1,2,3-Trimethylbenzene	121
1,3-Diethylbenzene	116
1,4-Diethylbenzene	117
Undecane	117
cis-2-Hexene	112
trans-2-Hexene	108
alpha-Pinene	105
beta-Pinene	109
Cyclopentene	110
1-Undecene	102
1-Decene	136
1-Nonene	103
1-Octene	102
1-Heptene	103
1,3-Butadiene	117
TPH ref. to Gasoline (MW=100)	Not Spiked

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	103	70-130

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relaquishing signature on this occurrent indicates that cample is being shipped in compiliance with all applicable local, State, Federal, national, and intendition laws, regulations and ordinances of any lifted. Air You's Linited assumes no hability with respect to the collection, handing or shipping of these samples, Relinquishing signature also indicates agreement to hold hamiless, defend, and indemn by Air Toxics Linited ogainst any calmit, denantid or action of any kind collection, handing or shipping of samples. D.O.T. Hattine (800), 467-4922.

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	FDLSOM, CA 95630-4719	Matiens and (916) 985-1000 FAX: (916) 986-1020
	n compliance	ulations and

City LALVOLLE State HAZO Project # 310520923 FAX 520 FX - (724) Date & Time Analyses Requested Late of Time Analyses Requested Late of Order Analyses Requested Received By: (September 2000 Time Analyses Reduction Analyses Reduction Analyses Analyses Order Analyses Reduction Analyses Reduction Analyses Requested Received By: (September 2000 Time Analyses Reduction Analyses Reduction Analyses Requested Analyses Reduction Analyses Reduction Analyses Requested Received By: (September 2000 Time Analyses Requested Analyses Reputed Analyses Reputed Analyses Analyses Received Analyses An
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FORT (285 FBL CO



AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0406121AR1

Work Order Summary

CLIENT:

Ms. Robin Schilling

Warrenville, IL 60555

BILL TO: Ms. Robin Schilling

ENSR

ENSR 27755 Diehl Road

27755 Diehl Road

Suite 100

Suite 100

Warrenville, IL 60555

PHONE:

630-836-1700

P.O. # 2017826

FAX:

01A

02A

03A

630-836-1711

PROJECT # 01005093 Hartford ICC

DATE RECEIVED: DATE COMPLETED: 6/7/2004 7/6/2004

CONTACT: DeDe Dodge

DATE REISSUED:

7/2/04

FRACTION# **NAME** MW-3 Grab

Lab Blank **CCV**

RECEIPT **TEST** VAC/PRES. Modified TO-15/TICs 6.0 "Hg Modified TO-15/TICs NA Modified TO-15/TICs NA

CERTIFIED BY:

Sinda d. Fruman

Laboratory Director

DATE:

07/06/04

LABORATORY NARRATIVE Ozone Precursors by Modified TO-15 ENSR

Workorder# 0406121AR1

One 6 Liter Summa Canister sample was received on June 07, 2004. The laboratory performed analysis for Ozone Precursors via Modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	TO-15	ATL Modifications
BFB acceptance criteria	CLP protocol	SW-846 protocol
IS Recoveries	60- 140% of mean over ICAL for blanks, and w/in 60- 140% of daily CCV for samples.	Within 60-140% of CCV recoveries for blank and samples.
Dilutions for initial calibration	Dynamic dilutions or static using canisters	Syringe dilutions
Daily CCV	70 - 130 %	60-140% for 90% of the target compounds
Concentration of IS spike	10 ppbv	25 ppbv
Concentration of IS spike	10 ppbv	25 ppbv

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The reported CCV for each daily batch may be derived from more than one individual analytical file due to the client's request for non-standard compounds.

Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

Specific analytes that are requested by the client to be reported as tentatively identified compounds (TICs) are determined by searching for each compound's characteristic spectra. If no chromatographic peak displaying the compound specific spectra exists, then the TIC is reported as not detected. Please note that the laboratory has not evaluated the stability of any heretofore tentatively identified compound in the vapor phase or for efficiency of recovery through the analytical system.

THE WORK ORDER WAS RE-ISSUED ON 07/06/04 TO CORRECT THE DILUTION FACTOR FOR SAMPLE MW-3 GRAB.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction no performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

SAMPLE NAME: MW-3 Grab

1D#: 0406121AR1-01A

Property of the second		era kad kinata maraja marana a sala at	P. 31.4.11.1	1277
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	3400	4200	11000	14000
Ethyl Benzene	3400	Not Detected	15000	Not Detected
Styrene	3400	Not Detected	14000	Not Detected
Toluene	3400	Not Detected	13000	Not Detected
1,2,4-Trimethylbenzene	3400	Not Detected	17000	Not Detected
1,3,5-Trimethylbenzene	3400	Not Detected	17000	Not Detected
m,p-Xylene	3400	Not Detected	15000	Not Detected
o-Xylene	3400	Not Detected	15000	Not Detected
Butane	13000	290000	32000	690000
1-Butene	13000	Not Detected	31000	Not Detected
cis-2-Butene	13000	Not Detected	31000	Not Detected
trans-2-butene	13000	Not Detected	31000	Not Detected
Cyclohexane	13000	13000	47000	46000 J
Cyclopentane	13000	16000	39000	46000
2,2-Dimethylbutane	13000	Not Detected	48000	Not Detected
2,3-Dimethylbutane	13000	28000	48000	99000
2,3-Dimethylpentane	13000	22000	56000	92000
2,4-Dimethylpentane	13000	15000	56000	62000
Heptane	13000	Not Detected	56000	Not Detected
Hexane	13000	40000	48000	140000
Isoprene	13000	Not Detected	38000	Not Detected
Cumene	13000	Not Detected	67000	Not Detected
Isopentane	13000	240000	40000	720000
Methylcyclohexane	13000	Not Detected	55000	Not Detected
Methylcyclopentane	13000	42000	47000	150000
2-Methylheptane	13000	Not Detected	64000	Not Detected
3-Methylheptane	13000	Not Detected	64000	Not Detected
2-Methylhexane	13000	18000	56000	76000
3-Methylhexane	13000	19000	56000	79000
2-Methylpentane	13000	110000	48000	390000
3-Methylpentane	13000	72000	48000	260000
Isobutane	13000	180000	32000	420000
Nonane	13000	Not Detected	72000	Not Detected
Octane	13000	Not Detected	64000	Not Detected
Pentane	13000	170000	40000	510000
1-Pentene	13000	Not Detected	39000	Not Detected
cis-2-Pentene	13000	Not Detected	39000	Not Detected
trans-2-Pentene	13000	Not Detected	39000	Not Detected
Propylbenzene	13000	Not Detected	67000	Not Detected
2,2,4-Trimethylpentane	13000	13000	64000	62000 J
2,3,4-Trimethylpentane	13000	Not Detected	64000	Not Detected
1-Hexene	13000	Not Detected	47000	Not Detected
1-116XEIIE	13000	1401 Detected	47000	1401 Detected

SAMPLE NAME: MW-3 Grab

ID#: 0406121AR1-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

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The first of the second	and the second		Application, see t	13 to 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Compound	R¤t. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
3-Ethyltoluene	13000	Not Detected	67000	Not Detected
4-Ethyltoluene	13000	Not Detected	67000	Not Detected
2-Ethyltoluene	13000	Not Detected	67000	Not Detected
Decane	13000	Not Detected	80000	Not Detected
1,2,3-Trimethylbenzene	13000	Not Detected	67000	Not Detected
1,3-Diethylbenzene	13000	Not Detected	75000	Not Detected
1,4-Diethylbenzene	13000	Not Detected	75000	Not Detected
Undecane	13000	Not Detected	87000	Not Detected
cis-2-Hexene	34000	Not Detected	120000	Not Detected
trans-2-Hexene	34000	Not Detected	120000	Not Detected
alpha-Pinene	34000	Not Detected	190000	Not Detected
beta-Pinene	34000	Not Detected	190000	Not Detected
Cyclopentene	13000	Not Detected	38000	Not Detected
1-Undecene	34000	Not Detected	220000	Not Detected
1-Decene	34000	Not Detected	200000	Not Detected
1-Nonene	13000	Not Detected	70000	Not Detected
1-Octene	13000	Not Detected	63000	Not Detected
1-Heptene	13000	Not Detected	55000	Not Detected
1,3-Butadiene	3400	Not Detected	7600	Not Detected
TPH ref. to Gasoline (MW=100)	67000	880000	280000	3600000

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Dodecane	112-40-3	NA	Not Detected
1-Dodecene	112-41-4	NA	Not Detected
Tridecane	629-50-5	NA	Not Detected

Container Type: 6 Liter Summa Canister

,		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	102	70-130

SAMPLE NAME: Lab Blank

ID#: 0406121AR1-02A

Braitige Gebet	5053 H		Papagrani in Waliotaka wa	\$14 <u>/</u>
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.50	Not Detected	1.6	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.2	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Butane	2.0	Not Detected	4.8	Not Detected
1-Butene	2.0	Not Detected	4.7	Not Detected
cis-2-Butene	2.0	Not Detected	4.7	Not Detected
rans-2-butene	2.0	Not Detected	4.7	Not Detected
Cyclohexane	2.0	Not Detected	7.0	Not Detected
Cyclopentane	2.0	Not Detected	5.8	Not Detected
2,2-Dimethylbutane	2.0	Not Detected	7.2	Not Detected
2,3-Dimethylbutane	2.0	Not Detected	7.2	Not Detected
2,3-Dimethylpentane	2.0	Not Detected	8.3	Not Detected
2,4-Dimethylpentane	2.0	Not Detected	8.3	Not Detected
Heptane	2.0	Not Detected	8.3	Not Detected
Hexane	2.0	Not Detected	7.2	Not Detected
Isoprene	2.0	Not Detected	5.7	Not Detected
Cumene	2.0	Not Detected	10	Not Detected
Isopentane	2.0	Not Detected	6.0	Not Detected
Methylcyclohexane	2.0	Not Detected	8.2	Not Detected
Methylcyclopentane	2.0	Not Detected	7.0	Not Detected
2-Methylheptane	2.0	Not Detected	9.5	Not Detected
3-Methylheptane	2.0	Not Detected	9.5	Not Detected
2-Methylhexane	2.0	Not Detected	8.3	Not Detected
3-Methylhexane	2.0	Not Detected	8.3	Not Detected
2-Methylpentane	2.0	Not Detected	7.2	Not Detected
3-Methylpentane	2.0	Not Detected	7.2	Not Detected
Isobutane	2.0	Not Detected	4.8	Not Detected
Nonane	2.0	Not Detected	11	Not Detected
Octane	2.0	Not Detected	9.5	Not Detected
Pentane	2.0	Not Detected	6.0	Not Detected
1-Pentene	2.0	Not Detected	5.8	Not Detected
cis-2-Pentene	2.0	Not Detected	5.8	Not Detected
trans-2-Pentene	2.0	Not Detected	5.8	Not Detected
Propylbenzene	2.0	Not Detected	10	Not Detected
2,2,4-Trimethylpentane	2.0	Not Detected	9.5	Not Detected
2,3,4-Trimethylpentane	2.0	Not Detected	9.5	Not Detected
1-Hexene	2.0	Not Detected	7.0	Not Detected

SAMPLE NAME: Lab Blank

ID#: 0406121AR1-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

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J. S. F. (182) St. C. C. W. M. W.	Sugar, Su	التراب المستركة المستعرف والساء	Military Subsection 1	经经验的证
Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
3-Ethyltoluene	2.0	Not Detected	10	Not Detected
4-Ethyltoluene	2.0	Not Detected	10	Not Detected
2-Ethyltoluene	2.0	Not Detected	10	Not Detected
Decane	2.0	Not Detected	12	Not Detected
1,2,3-Trimethylbenzene	2.0	Not Detected	10	Not Detected
1,3-Diethylbenzene	2.0	Not Detected	11	Not Detected
1,4-Diethylbenzene	2.0	Not Detected	11	Not Detected
Undecane	2.0	Not Detected	13	Not Detected
cis-2-Hexene	5.0	Not Detected	17	Not Detected
trans-2-Hexene	5.0	Not Detected	17	Not Detected
alpha-Pinene	5.0	Not Detected	28	Not Detected
beta-Pinene	5.0	Not Detected	28	Not Detected
Cyclopentene	2.0	Not Detected	5.7	Not Detected
1-Undecene	5.0	Not Detected	32	Not Detected
1-Decene	5.0	Not Detected	29	Not Detected
1-Nonene	2.0	Not Detected	10	Not Detected
1-Octene	2.0	Not Detected	9.3	Not Detected
1-Heptene	2.0	Not Detected	8.2	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
TPH ref. to Gasoline (MW=100)	10	880000	42	3600000

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv_
Dodecane	112-40-3	NA	Not Detected
1-Dodecene	112-41-4	NA	Not Detected
Tridecane	629-50-5	NA	Not Detected
Container Type: NA - Not Applicable			Method
Surrogates	%Recovery		Limits
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	100		70-130

SAMPLE NAME: CCV

ID#: 0406121AR1-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Compound %Recovery 103 Benzene Ethyl Benzene 103 112 Styrene 104 Toluene 114 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene 113 107 m,p-Xylene o-Xylene 105 **Butane** 112 102 1-Butene 111 cis-2-Butene 114 trans-2-butene 104 Cyclohexane 111 Cyclopentane 2,2-Dimethylbutane 111 108 2,3-Dimethylbutane 102 2,3-Dimethylpentane 2,4-Dimethylpentane 104 103 Heptane 105 Hexane 113 Isoprene Cumene 113 114 Isopentane Methylcyclohexane 101 100 Methylcyclopentane 101 2-Methylheptane 101 3-Methylheptane 105 2-Methylhexane 103 3-Methylhexane 105 2-Methylpentane 105 3-Methylpentane 123 Isobutane 106 Nonane Octane 101 112 Pentane 113 1-Pentene cis-2-Pentene 112 112 trans-2-Pentene Propylbenzene 124 2,2,4-Trimethylpentane 102 99 2,3,4-Trimethylpentane 106 1-Hexene

SAMPLE NAME: CCV

ID#: 0406121AR1-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Compound	%Recovery
3-Ethyltoluene	106
4-Ethyltoluene	138 Q
2-Ethyltoluene	120
Decane	108
1,2,3-Trimethylbenzene	121
1,3-Diethylbenzene	116
1,4-Diethylbenzene	117
Undecane	117
cis-2-Hexene	112
trans-2-Hexene	108
alpha-Pinene	105
beta-Pinene	109
Cyclopentene	110
1-Undecene	102
1-Decene	136
1-Nonene	103
1-Octene	102
1-Heptene	103
1,3-Butadiene	117
TPH ref. to Gasoline (MW=100)	Not Spiked

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	103	70-130

CHAIN-OF-CUSTODY RECORD

AIR TOXICS LTD. Relinquishing signature or this occument nd cates that sample a being shipped in common an environmental AMALYTICAL LABORATORY ordinance of any land. Air Titudes Limited sesumes on lash time. The same regulation and environmental AMALYTICAL LABORATORY. ordinances of any kind. Air Toxics Limited assumes no liability with respect to the obligation, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any disant demand, or action of any kind, reloced to the collection, handling, or shipping of samples. D.O.T. Hotting (800): 467-4922.

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E277 (25) WV. 29

WORK ORDER #: 0406121B

Work Order Summary

CLIENT:

Ms. Robin Schilling

BILL TO: Ms. Robin Schilling

ENSR

ENSR

27755 Diehl Road

27755 Diehl Road Suite 100

Suite 100 Warrenville, IL 60555

Warrenville, IL 60555

PHONE:

630-836-1700

P.O. # 2017826

FAX:

630-836-1711

PROJECT # 01005093 Hartford ICC

DATE RECEIVED: DATE COMPLETED: 6/7/2004 6/21/2004

CONTACT: DeDe Dodge

FRACTION #	<u>NAME</u>
01A	MW-3 Grab
02A	Lab Blank
03A	CCV
04A	LCS

	RECEIPT
<u>TEST</u>	<u>VAC/PRES</u> .
Modified TO-15	6.0 "Hg
Modified TO-15	NA
Modified TO-15	NA
Modified TO-15	NA

CERTIFIED BY:

Sinda d. Fruman

06/21/04 DATE:

Laboratory Director

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE Modified TO-15 ENSR Workorder# 0406121B

One 6 Liter Summa Canister sample was received on June 07, 2004. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	TO-14A/TO-15	ATL Modifications
BFB acceptance criteria	CLP protocol (TO-15)	SW-846 protocol
Concentration of IS spike	10 ppbv (TO-15)	25 ppbv
Dilutions for initial calibration	Dynamic dilutions or static using canisters	Syringe dilutions
Daily CCV	= 30% Difference</td <td><!--= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers</p--></td>	= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers</p
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43.	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58.
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Sample Drying System	Nafion Dryer (TO-14A)	Multisorbent
Sample Load Volume	400 mL (TO-14A)	Varied to 0.2 L.
Blank Acceptance Criteria.	< 0.20 ppbv (TO-14A)	< RL
BFB Absolute Abundance Criteria (TO-14A)	Within 10% of that from the previous day.	CCV internal standard area counts are compared to ICAL, corrective action for > 40 % D.
Initial Calibration	= 30 %RSD (TO-14A)</td <td><= 30 % RSD with 2 compounds allowed out to <= 40 % RSD.</td>	<= 30 % RSD with 2 compounds allowed out to <= 40 % RSD.
IS Recoveries	Within 40% of mean over ICAL for blanks, and within 40 % of daily CCV for samples. (TO-15)	Within 40% of CCV recoveries for blank and samples.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated Peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

SAMPLE NAME: MW-3 Grab

ID#: 0406121B-01A

	i i			
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	6.7	4000	22	13000
Container Type: 6 Liter Summa	a Canister			Method
Surrogates		%Recovery		Limits
Toluene-d8		100		70-130

SAMPLE NAME: Lab Blank ID#: 0406121B-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.20	Not Detected	0.65	Not Detected
Container Type: NA - Not Applicable				
Surrogates		%Recovery_		Method Limits
Toluene-d8		100		70-130

SAMPLE NAME: CCV ID#: 0406121B-03A

<u>-</u>	
	%Recovery
	88
	Method
%Recovery	Limits
100	70-130
	%Recovery

SAMPLE NAME: LCS ID#: 0406121B-04A

	313788.41	
Min Tipe	* -	e e carage a second para
Compound		%Recovery
Benzene		94
Container Type: NA - Not Applica	ble	
Surrogates	%Recov	Method very Limits
Toluene-d8	99	70-130

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Reinquishing signature on this document indicates that sample is being tripped in compliance FOLSOM, CA 95630-4719
with all applicable local, State, Federal, "ational, and international laws, regulations and (916) 985-1000 FAX: (916) 985-1020 handing or shipping of these samples. Reinquishing signature also indicates agreement to hold harmless, defenc, and indemnity Air Toxics Limited against any claim, demand, or action of any families, or the collection, handling, or shipping of samples, 0.0.7. Hottine (800) 467-4822 ardinances of 8.75 kind. Air Joxics Limited assumes no liability with respect to the collection.

Page + of +

Robin Stilling			Project infa:		Turn Around Time:	
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AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0406121C

Work Order Summary

CLIENT:

Ms. Robin Schilling

BILL TO:

Ms. Robin Schilling

ENSR

27755 Diehl Road

27755 Diehl Road

Suite 100

Suite 100 Warrenville, IL 60555

ENSR

Warrenville, IL 60555

PHONE:

630-836-1700

P.O. #

2017826

FAX:

01A

02A

03A

630-836-1711

PROJECT #

01005093 Hartford ICC

DATE RECEIVED: DATE COMPLETED: 6/7/04 6/18/04

CONTACT: DeDe Dodge

FRACTION#

NAME MW-3 Grab

Lab Blank

LCS

TEST

Modified ASTM D-1946 Modified ASTM D-1946

Modified ASTM D-1946

VAC./PRES. 6.0 "Hg NA

RECEIPT

NA

CERTIFIED BY:

Sinda d. Fruman

06/18/04 DATE:

Laboratory Director

Certification numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE Modified ASTM D-1946 ENSR Workorder# 0406121C

One 6 Liter Summa Canister sample was received on June 07, 2004. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane in air using GC/FID. The method involves direct injection of 1.0 mL of sample. See the data sheets for the reporting limit for Methane.

Requirement	ASTM D-1946	ATL Modifications
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a >/= 95% accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL (2.0 mL for He and H2) on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 30% RPD for detections > 5 X's the RL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

- B Compound present in laboratory blank greater than reporting limit.
- J Estimated value.

- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the detection limit.
- M Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue

SAMPLE NAME: MW-3 Grab

1D#: 0406121C-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

	PPDD 1	27 E A	
	Rpt	. Limit	Amount
Compound		(%)	(%)
Methane	0.0	0017	11

Container Type: 6 Liter Summa Canister

SAMPLE NAME: Lab Blank ID#: 0406121C-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

		Billion (1944) Billion (1948) Billion (1944)
	Rpt. Limit	Amount
Compound	(%)	(%)
Methane	0.00010	Not Detected

Container Type: NA - Not Applicable

SAMPLE NAME: LCS ID#: 0406121C-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

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Compound		%Recovery
Methane		99

Container Type: NA - Not Applicable

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA 95630-4719 (916) 985-1000 FAX: (916) 985-1020

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WORK ORDER #: 0406121D

Work Order Summary

CLIENT:

Ms. Robin Schilling

BILL TO: Ms. Robin Schilling

ENSR 27755 Diehl Road **ENSR**

27755 Diehl Road

Suite 100

Suite 100 Warrenville, IL 60555

Warrenville, IL 60555

PHONE:

630-836-1700

P.O. # 2017826

FAX:

630-836-1711

PROJECT #

01005093 Hartford ICC

DATE RECEIVED:

6/7/2004

CONTACT:

DeDe Dodge

DATE COMPLETED:

6/11/2004

RECEIPT TEST **FRACTION #** NAME VAC./PRES. 01A MW-3 Grab Air Toxics Ltd. @ 82 6.0 "Hg MW-3 Grab Duplicate Air Toxics Ltd. @ 82 6.0 "Hg OLAA 02A Lab Blank Air Toxics Ltd. @ 82 NA 03A **LCS** Air Toxics Ltd. @ 82 NA

CERTIFIED BY:

Sinda d. Truman

DATE: 06/11/04

Laboratory Director

Certification numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP-LELAP- Al 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05 Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE Air Toxics Ltd @82 ENSR Workorder# 0406121D

One 6 Liter Summa Canister sample was received on June 07, 2004. The laboratory performed analysis for Ethane, Ethene, Acetylene, Propane and Propylene via Air Toxics Limited Method @82. This method describes direct injection of up to 40 ml of sample followed by GC/FID. See the data sheets for the reporting limit for each compound.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

- B Compound present in laboratory blank greater than reporting limit.
- J Estimated value.
- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the detection limit.
- M Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue

SAMPLE NAME: MW-3 Grab

1D#: 0406121D-01A AIT TOXICS LTD. @ 82 GC/FID

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	the state of the s	Alleman and Miles
Compound	Rpt. Limit (ppbv)	Amount (ppbv)
Ethane	84	49000
Ethene	84	Not Detected
Acetylene	84	Not Detected
Propane	84	30000
Propylene	84	Not Detected

Container Type: 6 Liter Summa Canister

SAMPLE NAME: MW-3 Grab Duplicate

ID#: 0406121D-01AA AIT TOXICS LTD. @ 82 GC/FID

PARTY.	PART (1)			
Compound	Rpt. Limit (ppbv)	Amount (ppbv)		
Ethane	3400	52000		
Ethene	3400	Not Detected		
Acetylene	3400	Not Detected		
Propane	3400	32000		
Propylene	3400	Not Detected		

Container Type: 6 Liter Summa Canister

SAMPLE NAME: Lab Blank

ID#: 0406121D-02A AIT TOXICS LTD. @ 82 GC/FID

•	
\$ 25 F 5 7 1	
3/21/10/2017 S	
Rpt. Limit (ppbv)	Amount (ppbv)
50	Not Detected
	(ppbv) 50 50 50

Container Type: NA - Not Applicable

SAMPLE NAME: LCS ID#: 0406121D-03A AIT TOXICS LTD. @ 82 GC/FID



Compound	%Recovery
Ethane	105
Ethene	110
Acetylene	117
Propane	97
Propylene	104

Container Type: NA - Not Applicable

(a) AIR TOXICS LTD. AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

with all applicable local, State, Federal, national, and international laws, negulations and (916) 985-1000 FAX; (916) 985-1020 Sample Transportation Notice
Reinquishing signature on this document indicates that sample is being shipped in compliance FOLSOM, CA 95630-4719 randing or shipping of these samples. Refinquishing signifure also indicates agreement to hold harmiess, defend, and indemnify Air Toxics Limsed against any claim, demand, or section of any ordinances of any king. Air Toxics Limited assumes no liability with respect to the collection, knd, related to the collection, handling, or shipping of samples, 0.0.1. Notine (800) 457-4922

180 BLUE RAVINE ROAD, SUITE B

かつの Receipt Canister Pressure / Vacuum 7 8 1 Chank shills be proof agosting 04061217 HENRY -0-BAG & OL CLUB CAROLETY C.82 antrone charges pust Work Order # Specify Page | Turn Around Time: 30 Ē A Horman ☐ Rush 28.0 <u>Lijin</u> Son S Custody Seals Intact? MGI 本小S £ MALL TONS CURSUITASINGS, Malkey C. 8-2 Project # 11405252 Notes: And July 15 ANYTOKIES MEH Analyses Requested Project info: 7000 Condition P.O. #_ C02107 Y:/E/9 12 (SOS) Temp. (°C) 120-636-174 Received By. (Signature) Date-Time City LANG TOWN BESIEF Opened By: 245 Date & Time 要 Z X X 4222 Air Dil Field Sample I.D. 6 se -836-1700 Refriquence By: (Signature) Date/Time Shipper Name znss: AW -3 Collected By: Signature Contact Person Phone e O 35g

Form 1285 Per. 29

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0406121E

Work Order Summary

CLIENT:

Ms. Robin Schilling

BILL TO: Ms. Robin Schilling

ENSR

ENSR

27755 Diehl Road

Warrenville, IL 60555

27755 Diehl Road

Suite 100

Suite 100

Warrenville, IL 60555

PHONE:

630-836-1700

P.O. #

2017826

FAX:

630-836-1711

PROJECT #

01005093 Hartford ICC

DATE RECEIVED: DATE COMPLETED:

6/7/2004 6/21/2004

CONTACT:

DeDe Dodge

FRACTION#	NAME
01A	MW-3 Grab
02A	Lab Blank
03A	CCV
04A	LCS

	RECEIPT
<u>TEST</u>	VAC./PRES.
Modified TO-15	6.0 "Hg
Modified TO-15	NA
Modified TO-15	NA
Modified TO-15	NA

CER	TIF	IED	BY:

Linda d. Fruman

06/21/04 DATE:

Laboratory Director

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05 Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM. CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE Modified TO-15 ENSR Workorder# 0406121E

One 6 Liter Summa Canister sample was received on June 07, 2004. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	TO-14A/TO-15	ATL Modifications
BFB acceptance criteria	CLP protocol (TO-15)	SW-846 protocol
Concentration of 1S spike	10 ppbv (TO-15)	25 ppbv
Dilutions for initial calibration	Dynamic dilutions or static using canisters	Syringe dilutions
Daily CCV	= 30% Difference</td <td><!--= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers</p--></td>	= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers</p
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43.	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58.
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Sample Drying System	Nafion Dryer (TO-14A)	Multisorbent
Sample Load Volume	400 mL (TO-14A)	Varied to 0.2 L.
Blank Acceptance Criteria.	< 0.20 ppbv (TO-14A)	< RL
BFB Absolute Abundance Criteria (TO-14A)	Within 10% of that from the previous day.	CCV internal standard area counts are compared to ICAL, corrective action for > 40 % D.
Initial Calibration	= 30 %RSD (TO-14A)</td <td><!--= 30 % RSD with 2 compounds allowed out to </= 40 % RSD.</td--></td>	= 30 % RSD with 2 compounds allowed out to </= 40 % RSD.</td
IS Recoveries	Within 40% of mean over ICAL for blanks, and within 40% of daily CCV for samples. (TO-15)	Within 40% of CCV recoveries for blank and samples.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated Peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

SAMPLE NAME: MW-3 Grab

ID#: 0406121E-01A

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	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Freon 12	67	Not Detected	340	Not Detected
Freon 114	67	Not Detected	480	Not Detected
Chloromethane	270	Not Detected	560	Not Detected
Vinyl Chloride	67	Not Detected	170	Not Detected
1,3-Butadiene	67	Not Detected	150	Not Detected
Bromomethane	67	Not Detected	260	Not Detected
Chloroethane	67	Not Detected	180	Not Detected
Freon 11	67	Not Detected	380	Not Detected
Ethanol	270	Not Detected	510	Not Detected
Freon 113	67	Not Detected	520	Not Detected
1,1-Dichloroethene	67	Not Detected	270	Not Detected
Acetone	270	Not Detected	650	Not Detected
2-Propanol	270	Not Detected	670	Not Detected
Carbon Disulfide	67	Not Detected	210	Not Detected
3-Chloropropene	270	Not Detected	850	Not Detected
Methylene Chloride	67	Not Detected	240	Not Detected
Methyl tert-butyl ether	67	Not Detected	240	Not Detected
trans-1,2-Dichloroethene	67	Not Detected	270	Not Detected
Hexane	67	32000 E	240	120000 E
Vinyl Acetate	270	Not Detected	960	Not Detected
1,1-Dichloroethane	67	Not Detected	280	Not Detected
2-Butanone (Methyl Ethyl Ketone)	67	Not Detected	200	Not Detected
cis-1,2-Dichloroethene	67	Not Detected	270	Not Detected
Tetrahydrofuran	67	Not Detected	200	Not Detected
Chloroform	67	Not Detected	330	Not Detected
1,1,1-Trichloroethane	67	Not Detected	370	Not Detected
Cyclohexane	67	14000	230	50000
Carbon Tetrachloride	67	Not Detected	430	Not Detected
2,2,4-Trimethylpentane	67	12000	320	57000
Benzene	67	4300	220	14000
1.2-Dichloroethane	67	Not Detected	280	Not Detected
Heptane	67	5200	280	22000
Trichloroethene	67	Not Detected	360	Not Detected
1,2-Dichloropropane	67	Not Detected	310	Not Detected
1,4-Dioxane	270	Not Detected	980	Not Detected
Bromodichloromethane	67	Not Detected	460	Not Detected
cis-1,3-Dichloropropene	67	Not Detected	310	Not Detected
4-Methyl-2-pentanone	67	Not Detected	280	Not Detected
Toluene	67	Not Detected	260	Not Detected
trans-1,3-Dichloropropene	67	Not Detected	310	Not Detected
1,1,2-Trichloroethane	67	Not Detected	370	Not Detected
Tetrachloroethene	67	Not Detected	460	Not Detected

SAMPLE NAME: MW-3 Grab

1D#: 0406121E-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

निवास क्षेत्रकार के जिल्ला है।			वैकारत बरोजनायाँ हिरीत		
BURTON CONTRACTOR OF SERVICE		and the same of th	adabaah Maira ayaji isid xdasia 🖖		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
2-Hexanone	270	Not Detected	1100	Not Detected	
Dibromochloromethane	67	Not Detected	580	Not Detected	
1,2-Dibromoethane (EDB)	67	Not Detected	520	Not Detected	
Chlorobenzene	67	Not Detected	310	Not Detected	
Ethyl Benzene	67	Not Detected	300	Not Detected	
m,p-Xylene	67	66 J	300	290 J	
o-Xylene	67	Not Detected	300	Not Detected	
Styrene	67	Not Detected	290	Not Detected	
Bromoform	67	Not Detected	700	Not Detected	
Cumene	67	150	330	760	
1,1,2,2-Tetrachloroethane	67	Not Detected	470	Not Detected	
Propylbenzene	67	270	330	1300	
4-Ethyltoluene	67	Not Detected	330	Not Detected	
1,3,5-Trimethylbenzene	67	Not Detected	330	Not Detected	
1,2,4-Trimethylbenzene	67	Not Detected	330	Not Detected	
1,3-Dichlorobenzene	67	Not Detected	410	Not Detected	
1,4-Dichlorobenzene	67	Not Detected	410	Not Detected	
alpha-Chlorotoluene	67	Not Detected	350	Not Detected	
1,2-Dichlorobenzene	67	Not Detected	410	Not Detected	
1,2,4-Trichlorobenzene	270	Not Detected	2000	Not Detected	
Hexachlorobutadiene	270	Not Detected	2900	Not Detected	

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister

		Method
Surrogates	%Recovery	Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	120	70-130
4-Bromofluorobenzene	102	70-130

J = Estimated value.

SAMPLE NAME: Lab Blank

ID#: 0406121E-02A

FIGURE CONTRACTOR	(10) (13)		PR. 21 Part 1	
All fileling and a secretarity of a	ر را المار		9939 may	
Control of the Contro	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.6	Not Detected
Chloromethane	2.0	Not Detected	4.2	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	2.0	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.9	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	5.0	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.4	Not Detected
Methylene Chloride	0.50	Not Detected	1.8	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
Vinyl Acetate	2.0	Not Detected	7.2	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.5	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.8	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.2	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.4	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.1	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.3	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.1	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.8	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
. 5 59 110 100 110 10			-	

SAMPLE NAME: Lab Blank

ID#: 0406121E-02A

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Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Hexanone	2.0	Not Detected	8.3	Not Detected
Dibromochloromethane	0.50	Not Detected	4.3	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.9	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.2	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.5	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.5	Not Detected
Propylbenzene	0.50	Not Detected	2.5	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.5	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	22	Not Detected
Container Type: NA - Not Applicable				
				Method
Surrogates		%Recovery		Limits
Toluene-d8		97		70-130
1,2-Dichloroethane-d4		93		70-130
4-Bromofluorobenzene		100		70-130

SAMPLE NAME: CCV

ID#: 0406121E-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

CONTRACTOR OF THE PROPERTY OF

Compound %Recovery 105 Freon 12 94 Freon 114 94 Chloromethane Vinyl Chloride 94 74 1,3-Butadiene Bromomethane 89 Chloroethane 103 Freon 11 89 Ethanol 80 Freon 113 92 81 1,1-Dichloroethene 74 Acetone 2-Propanol 79 Carbon Disulfide 80 74 3-Chloropropene 85 Methylene Chloride 90 Methyl tert-butyl ether 81 trans-1,2-Dichloroethene 80 Hexane 85 Vinyl Acetate 1,1-Dichloroethane 85 2-Butanone (Methyl Ethyl Ketone) 93 cis-1,2-Dichloroethene 85 Tetrahydrofuran 86 Chloroform 94 97 1,1,1-Trichloroethane 96 Cyclohexane 104 Carbon Tetrachloride 91 2,2,4-Trimethylpentane Benzene 89 96 1,2-Dichloroethane 101 Heptane 103 Trichloroethene 100 1,2-Dichloropropane 97 1,4-Dioxane Bromodichloromethane 107 102 cis-1,3-Dichloropropene 4-Methyl-2-pentanone 107 Toluene 100 trans-1,3-Dichloropropene 107 105 1,1,2-Trichloroethane 117 Tetrachloroethene

SAMPLE NAME: CCV

ID#: 0406121E-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

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Compound	%Recovery
2-Hexanone	103
Dibromochloromethane	119
1,2-Dibromoethane (EDB)	111
Chlorobenzene	106
Ethyl Benzene	106
m,p-Xylene	109
o-Xylene	106
Styrene	109
Bromoform	129
Cumene	100
1,1,2,2-Tetrachloroethane	101
Propylbenzene	100
4-Ethyltoluene	106
1,3,5-Trimethylbenzene	100
1,2,4-Trimethylbenzene	102
1,3-Dichlorobenzene	108
1,4-Dichlorobenzene	108
alpha-Chlorotoluene	84
1,2-Dichlorobenzene	104
1,2,4-Trichlorobenzene	96
Hexachlorobutadiene	104

Container Type: NA - Not Applicable

4,		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	99	70-130	
1,2-Dichloroethane-d4	92	70-130	
4-Bromofluorobenzene	104	70-130	

SAMPLE NAME: LCS

ID#: 0406121E-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

DID DEADLY TO THE EXPLANATED

%Recovery

90

99

93

96

103 114

102

117

83 104

112

103

121

119

109

111

120

118

106

128 118

126

THE STATE OF

Compound

1,1-Dichloroethane

Tetrahydrofuran

Chloroform

Cyclohexane

Benzene

Heptane

cis-1,2-Dichloroethene

1,1,1-Trichloroethane

Carbon Tetrachloride

1,2-Dichloroethane

Trichloroethene 1,2-Dichloropropane

1,4-Dioxane

Toluene

2,2,4-Trimethylpentane

Bromodichloromethane

cis-1,3-Dichloropropene

trans-1,3-Dichloropropene

4-Methyl-2-pentanone

1,1,2-Trichloroethane

Tetrachloroethene

2-Butanone (Methyl Ethyl Ketone)

Compound	%Recovery
Freon 12	108
Freon 114	104
Chloromethane	92
Vinyl Chloride	99
1,3-Butadiene	74
Bromomethane	91
Chloroethane	124
Freon 11	96
Ethanol	87
Freon 113	94
1,1-Dichloroethene	85
Acetone	79
2-Propanol	74
Carbon Disulfide	85
3-Chloropropene	68
Methylene Chloride	82
Methyl tert-butyl ether	101
trans-1,2-Dichloroethene	87
Hexane	83
Vinyl Acetate	104

SAMPLE NAME: LCS

ID#: 0406121E-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

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	%Recovery	
2-Hexanone	120	
Dibromochloromethane	123	
1,2-Dibromoethane (EDB)	114	
Chlorobenzene	113	
Ethyl Benzene	109	
m,p-Xylene	109	
o-Xylene	103	
Styrene	114	
Bromoform	116	
Cumene	91	
1,1,2,2-Tetrachloroethane	107	
Propylbenzene	68	
4-Ethyltoluene	104	
1,3,5-Trimethylbenzene	96	
1,2,4-Trimethylbenzene	92	
1,3-Dichlorobenzene	110	
1,4-Dichlorobenzene	106	
alpha-Chlorotoluene	109	
1,2-Dichlorobenzene	107	
1,2,4-Trichlorobenzene	119	
Hexachlorobutadiene	121	

Container Type: NA - Not Applicable

		Method Limits	
Surrogates	%Recovery		
Toluene-d8	99	70-130	
1,2-Dichloroethane-d4	99	70-130	
4-Bromofluorobenzene	104	70-130	

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Reincustring signature on this document indicates that sample is being shipped in compliance FOLSOM, CA 95630-4719
with all applicable local, State, Federal, national, and international laws, regulations and (916) 985-1000 FAX: (916) 985-1020 ordinances of any kird. Air Toxics Limited assumes no liability with respect to the collection,

haneling or at poing of these samples. Relinquishing a gratum also indicates agreement to hald harmess, defend, and indemnify Air Toxics, imited against any claim, demond, or action of any kind, related to the collection, haneling, or shipping of samples. D.O.T. Hortine (800) 467-4922.

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APPENDIX C

Field Sample ID	Sample Location Description	Type/Container	Laboratory Sample ID	Analysis	Method
6/11/04 Woman's Locker Room	Hartford Community Center. Indoor air sample from women's locker room.	Indoor Air/Grab Tedlar Bag	0406235-01A	Benzene	Mod. TO-15
6/11/04 Sanitary Closet	Hartford Community Center. Indoor air sample from closet in hallway between locker rooms. Closet contains sewer pipe vent stack.	Indoor Air/Grab Tedlar Bag	0406235-02A	Benzene	Mod. TO-15
6/11/04 Kitchen	Hartford Community Center. Indoor air sample from kitchen area	Indoor Air/Grab Tedlar Bag	0406235-03A	Benzene	Mod. TO-15
6/11/04 Boiler Room	Hartford Community Center. Indoor air sample from boiler room.	Indoor Air/Grab Tedlar Bag	0406235-04A	Benzene	Mod. TO-15

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0406235

Work Order Summary

CLIENT: Ms. Robin Schilling BILL TO: Ms. Robin Schilling

ENSR ENSR

27755 Diehl Road 27755 Diehl Road

Suite 100 Suite 100

Warrenville, IL 60555 Warrenville, IL 60555

PHONE: 630-836-1700 P.O. # 2017826

FAX: 630-836-1711 PROJECT # 01005-093-360 Hartford

DATE RECEIVED: 6/14/2004 CONTACT: DeDe Dodge
DATE COMPLETED: 6/15/2004

			RECEIPT
FRACTION #	NAME	<u>TEST</u>	VAC/PRES.
01A	6/11/04 Womans Locker Room	Modified TO-15	Tedlar Bag
02A	6/11/04 Sanitary Closet	Modified TO-15	Tedlar Bag
03A	6/11/04 Kitchen	Modified TO-15	Tedlar Bag
04A	6/11/04 Boiler Room	Modified TO-15	Tedlar Bag
05A	Lab Blank	Modified TO-15	NA
06A	CCV	Modified TO-15	NA
07A	LCS	Modified TO-15	NA

	Sinda d. Fruman		
CERTIFIED BY:	Carda Ci.	DATE	06/15/04
CERTIFIED B1:		DATE.	

Laboratory Director

Certification numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE Modified TO-15 ENSR

Workorder# 0406235

Four 5 Liter Tedlar Bag samples were received on June 14, 2004. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	TO-14A/TO-15	ATL Modifications
BFB acceptance criteria	CLP protocol (TO-15)	SW-846 protocol
Concentration of IS spike	10 ppbv (TO-15)	25 ppbv
Dilutions for initial calibration	Dynamic dilutions or static using canisters	Syringe dilutions
Daily CCV	= 30% Difference</td <td><!--= 30% Difference with two allowed out up to </=40%.; flag<br-->and narrate outliers</td>	= 30% Difference with two allowed out up to </=40%.; flag<br and narrate outliers
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43.	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58.
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Sample Drying System	Nafion Dryer (TO-14A)	Multisorbent
Sample Load Volume	400 mL (TO-14A)	Varied to 0.2 L.
Blank Acceptance Criteria.	< 0.20 ppbv (TO-14A)	< RL
BFB Absolute Abundance Criteria (TO-14A)	Within 10% of that from the previous day.	CCV internal standard area counts are compared to ICAL, corrective action for > 40 % D.
Initial Calibration	= 30 %RSD (TO-14A)</td <td><!--= 30 % RSD with 2 compounds allowed out to </= 40 % RSD.</td--></td>	= 30 % RSD with 2 compounds allowed out to </= 40 % RSD.</td
IS Recoveries	Within 40% of mean over ICAL for blanks, and within 40 % of daily CCV for samples. (TO-15)	Within 40% of CCV recoveries for blank and samples.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on sample 6/11/04 Sanitary Closet due to the presence of high level non-target

species.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated Peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

SAMPLE NAME: 6/11/04 Womans Locker Room

ID#: 0406235-01A

in de la companya de La companya de la co	* 10 51312	Light Education	6771 577 5777 (17.5757.83) 6771 577 5777 (17.5757.83)	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.20	6.9	0.65	22
Container Type: 5 Liter T	edlar Bag			Method
Surrogates		%Recovery		Limits
Toluene-d8		97		70-130

SAMPLE NAME: 6/11/04 Sanitary Closet

ID#: 0406235-02A

FIX	(E) (1)	The mean property symmetric box	The stantage	3.11.
The Angles	و المنظمة المن	an destruction of	210.57400000	Bethe Harden
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.27	9.8	0.86	32
Container Type: 5 Liter Tedlar Bag				
Surrogates		%Recovery		Method Limits
Toluene-d8		96		70-130

SAMPLE NAME: 6/11/04 Kitchen

ID#: 0406235-03A

a com	(ELETT)		Waty transport of the			
	ar and the second of the secon	. Albertain and all a second	3213 V Sec. 1			
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)		
Benzene	0.20	5.8	0.65	19		
Container Type: 5 Liter Tedlar	Bag					
Surrogates		%Recovery		Method Limits		
Toluene-d8		99		70-130		

SAMPLE NAME: 6/11/04 Boiler Room

ID#: 0406235-04A

F.1. E. 1751	(ID)			
De Contra de la constitución de la contra del la contra de la contra del la	Commenter of the Commen	والمستعدد المستعدد	dinatarani di	1000033
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.20	2.2	0.65	7.3
Container Type: 5 Liter Tedlar I	Зад			
Surrogates		%Recovery		Method Limits
Toluene-d8		98		70-130

SAMPLE NAME: Lab Blank

1D#: 0406235-05A

2 0010	TESTING :		- <u>031307</u> etc. 1 acc	4. 4
Part (1995) 1968 - The Art (1995) 1968 - Landelster (1995) (1966) (1995) (1996) (1996) (1996)	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Benzene	0.20	Not Detected	0.65	Not Detected
Container Type: NA - Not Applicab	le			
Surrogates		%Recovery		Method Limits
Toluene-d8		96		70-130

SAMPLE NAME: CCV

ID#: 0406235-06A

DE SESTEMBRE DE LE CONTROL DE	Divie Lite	diserration of the section of the se
Compound		%Recovery
Benzene		91
Container Type: NA - Not Applicable		
		Method
Surrogates	%Recovery	Limits
Toluene-d8	98	70-130

SAMPLE NAME: LCS

ID#: 0406235-07A

PIDID!	F103 110	Time 10		
Distriction of the second	St. B. J. S			
Compound				%Recovery
Benzene				106
Container Type: NA	- Not Applicable			
Surrogates		%Recovery		Method Limits
Toluene-d8		98		70-130



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Reliquichly signature on this document integrates that sample is being shipped in compliance FOLSOM, CA 96630-4719
with all applicable local, State, Faderal, national, and international aws, regulations and (916) 965-1000 FAX: (916) 985-1028

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handing or stipping of these samples. Ralinquishing signature also indicates agreement to halverness, defend, and indemnify Air Texics Limited against any calm, demand, or action of any land, related to the collection, handling, or shoping of samples, D.O.T. Modine (800) 467-4922. ordinances of any sind. Air Toxics Limited assumes no intainty with respect to the collection,

Turn Around Time: Normal Rush 24 HR	Canister Pressure / Vacuum Inital Final Receipt	E Saple		Maintainth Winter Bridge E
Project info: P.O. # Project *CVOE: UR3 - 36 Project Name Haded	Analyses Requested			Notes:
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Copia Schillag S. Chekl Rd Callbon 126 1700 FAX 63	Field Sample I.D. Date	Garten Com	Color Form	Signature: December 1635 Signature: December 1
Contact Person Lebla Comparity FIEK Address 77755 Dicht Phone 630-636 7700 Collected By: Signature	Lab 1.0 01.4 Ginley	- 1	O-1 & - VIII/6+	Felippiehod by (3:gralune) Days Time Felinque shad by (3:gralune) Days Time Felinque shad by (3:gralune) Days Time Conty

APPENDIX D

AIR TOXICS LTD LABORATORY REPORT 0406241						
Field Sample ID	Sample Location Description	Type/Container	Laboratory Sample ID	Analysis	Method	
134-B E. Watkins	134 E Watkins. Indoor air sample	Indoor Air/24-hour	0406241B-01A	Benzene rerun	Mod. TO-15	
	from the basement near bar.	Summa Canister	0406241C-01A	VOCs	Mod. TO-15	
	1		0406241D-01A	VOCs	Mod. TO-15	
			0406241E-01A	Additional VOCs	@ 82 GC/FID	
			0406241F-01A	Mod. Natural Gas	ASTM D-1946	
134-1 E. Watkins	134 E Watkins. Indoor air sample	Indoor Air/24-hour	0406241B-02A	Benzene rerun	Mod. TO-15	
	from 1st floor bedroom at SW	Summa Canister	0406241C-02A	VOCs	Mod. TO-15	
	corner of house.		0406241D-02A	VOCs	Mod. TO-15	
			0406241E-02A	Additional VOCs	@ 82 GC/FID	
	<u> </u>		0406241F-02A	Mod. Natural Gas	ASTM D-1946	
130-B E. Watkins	130 E Watkins. Indoor air sample	Indoor Air/24-hour	0406241A-03A	Benzene rerun	Mod. TO-15	
	from the basement near the back	Summa Canister	0406241C-03A	VOCs	Mod. TO-15	
	door stairs.		0406241D-03A	VOCs	Mod. TO-15	
			0406241E-03A	Additional VOCs	@ 82 GC/FID	
			0406241F-03A	Mod. Natural Gas	ASTM D-1946	

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0406241A

Work Order Summary

CLIENT:

Ms. Robin Schilling

BILL TO:

Ms. Robin Schilling

ENSR

ENSR 27755 Diehl Road

27755 Diehl Road

Suite 100

Suite 100 Warrenville, IL 60555

Warrenville, IL 60555

PHONE:

630-836-1700

P.O. #

2017826

FAX:

630-836-1711

PROJECT#

01005-093-300 Hartford

DATE RECEIVED:

06/12/04

CONTACT: DeDe Dodge

DATE COMPLETED:

06/17/04

NAME FRACTION# 03A 130-B E. Watkins 04A Lab Blank 05A **CCV** 06A LCS

RECEIPT **TEST** VAC./PRES. Modified TO-15 0 "Hg Modified TO-15 NA Modified TO-15 NA Modified TO-15 NA

CERTIFIED BY:

Sinda d. Fruman

06/17/04 DATE:

Laboratory Director

Certfication numbers: AR DEO - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE Modified TO-15 ENSR

Workorder# 0406241A

One 6 Liter Summa Canister sample was received on June 12, 2004. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	TO-14A/TO-15	ATL Modifications
BFB acceptance criteria	CLP protocol (TO-15)	SW-846 protocol
Concentration of 1S spike	10 ppbv (TO-15)	25 ppbv
Dilutions for initial calibration	Dynamic dilutions or static using canisters	Syringe dilutions
Daily CCV	= 30% Difference</td <td><!--= 30% Difference with two allowed out up to </=40%.; flag<br-->and narrate outliers</td>	= 30% Difference with two allowed out up to </=40%.; flag<br and narrate outliers
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43.	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58.
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Sample Drying System	Nafion Dryer (TO-14A)	Multisorbent
Sample Load Volume	400 mL (TO-14A)	Varied to 0.2 L.
Blank Acceptance Criteria.	< 0.20 ppbv (TO-14A)	<rl< td=""></rl<>
BFB Absolute Abundance Criteria (TO-14A)	Within 10% of that from the previous day.	CCV internal standard area counts are compared to ICAL, corrective action for > 40 % D.
Initial Calibration	= 30 %RSD (TO-14A)</td <td><!--= 30 % RSD with 2 compounds allowed out to </= 40 % RSD.</td--></td>	= 30 % RSD with 2 compounds allowed out to </= 40 % RSD.</td
IS Recoveries	Within 40% of mean over ICAL for blanks, and within 40 % of daily CCV for samples. (TO-15)	Within 40% of CCV recoveries for blank and samples.
Method Detection Limit	Follow 40CFR Pt.136 App. B	The Method Detection Limit study met all relevant requirements in 40CFR Pt. 136, Appendix B (including a statistically calculated MDL that is less than the Reporting Limit) with the exception that for some compounds the level of the analyte in the spiked

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated Peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

SAMPLE NAME: 130-B E. Watkins

ID#: 0406241A-03A

	San Property Comments	145 9 4 (76)				
11) 730 . 	our en la	with a second	Assert Market Commence			
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)		
Benzene	0.27	3.0	0.87	9.8		
Container Type: 6 Liter :	Summa Canister					
Surrogates		%Recovery		Method Limits		
Toluene-d8		94		70-130		

SAMPLE NAME: Lab Blank

ID#: 0406241A-04A MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

#BANGA	130 K x 2		A second of the second	
				er programme
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.20	Not Detected	0.65	Not Detected
Container Type: NA - Not Applic	able			
Surrogates		%Recovery		Method Limits
Toluene-d8		100		70-130

SAMPLE NAME: CCV ID#: 0406241A-05A

利益的		
A.A. S.		The Hall the second of the second
Compound		%Recovery
Benzene		84
Container Type: NA - N	Not Applicable	
		Method
Surrogates	%Rec	overy Limits
Toluene-d8	9	8 70-130

SAMPLE NAME: LCS

ID#: 0406241A-06A

नार्वेक	n Berege gegin i	Bright & St. Jan.
And the second s	produce the second	tellede all intelligible
Compound		%Recovery
Benzene		92
Container Type: NA - Not Applicable		
Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130

CHAIN-OF-CUSTODY RECORD

AIR TOXICS LTD. Reinquisting signature on this document indicates that sample is being shipped in campilance FOLSOM, CA 95630-4719

AN ENVERONMENTAL ANALYTICAL LABORATORY ordinances of any kind. Air Toxics Limited assumes no liability with respect to the confidence of the confidenc handling or shipping of these samples. Relinquishing a gruture also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any land, related to the collection handling, or shipping of samples. D.O.T. Hottine (800) 467-4922

Page 1 of 1

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Children of the Control

CLIENT:

WORK ORDER #: 0406241B

Work Order Summary

BILL TO: Ms. Robin Schilling

DECEIDT

ENSR ENSR

27755 Diehl Road 27755 Diehl Road

Suite 100 Suite 100

Warrenville, IL 60555 Warrenville, IL 60555

PHONE: 630-836-1700 P.O. # 2017826

Ms. Robin Schilling

FAX: 630-836-1711 PROJECT # 01005-093-300 Hartford

DATE RECEIVED: 06/12/04 CONTACT: DeDe Dodge

DATE COMPLETED: 06/28/04

			RECEBI
FRACTION #	<u>NAME</u>	<u>TEST</u>	VAC./PRES.
01A	134-B E. Watkins	Modified TO-15	6.5 "Hg
02A	134-1 E. Watkins	Modified TO-15	7.5 "Hg
03A	Lab Blank	Modified TO-15	NA
04A	CCV	Modified TO-15	NA
05A	LCS	Modified TO-15	NA

	Sinda d. Fruman		06 00 04
CERTIFIED BY:		DATE:	06/28/04

Laboratory Director

Certification numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP-LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE Modified TO-15 ENSR Workorder# 0406241B

Two 6 Liter Summa Canister samples were received on June 12, 2004. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	TO-14A/TO-15	ATL Modifications
BFB acceptance criteria	CLP protocol (TO-15)	SW-846 protocol
Concentration of IS spike	10 ppbv (TO-15)	25 ppbv
Dilutions for initial calibration	Dynamic dilutions or static using canisters	Syringe dilutions
Daily CCV	= 30% Difference</td <td><!--= 30% Difference with two allowed out up to </=40%.; flag<br-->and narrate outliers</td>	= 30% Difference with two allowed out up to </=40%.; flag<br and narrate outliers
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43.	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58.
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Sample Drying System	Nafion Dryer (TO-14A)	Multisorbent
Sample Load Volume	400 mL (TO-14A)	Varied to 0.2 L.
Blank Acceptance Criteria.	< 0.20 ppbv (TO-14A)	< RL
BFB Absolute Abundance Criteria (TO-14A)	Within 10% of that from the previous day.	CCV internal standard area counts are compared to ICAL, corrective action for > 40 % D.
Initial Calibration	= 30 %RSD (TO-14A)</td <td><!--= 30 % RSD with 2 compounds allowed out to </= 40 % RSD.</p--></td>	= 30 % RSD with 2 compounds allowed out to </= 40 % RSD.</p
IS Recoveries	Within 40% of mean over ICAL for blanks, and within 40 % of daily CCV for samples. (TO-15)	Within 40% of CCV recoveries for blank and samples.
Method Detection Limit	Follow 40CFR Pt.136 App. B	The Method Detection Limit study met all relevant requirements in 40CFR Pt. 136, Appendix B (including a statistically calculated MDL that is less than the Reporting Limit) with the exception that for some compounds the level of the analyte in the spiked

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated Peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

SAMPLE NAME: 134-B E. Watkins

ID#: 0406241B-01A

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MERCH.	en e	general and the second	Table AND BY	1803 N
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.34	1.1	1.1	3.7
Container Type: 6 Liter Su	ımma Canister			
Surrogates		%Recovery		Method Limits
Toluene-d8		93	· · · · · · · · · · · · · · · · · · ·	70-130

SAMPLE NAME: 134-1 E. Watkins

ID#: 0406241B-02A

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Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.36	1.1	1.2	3.6
Container Type: 6 Liter Su	mma Canister			
Surrogates		%Recovery		Method Limits
Toluene-d8		93		70-130

SAMPLE NAME: Lab Blank

ID#: 0406241B-03A

	3000			
April 18. April 18.	- e ²	Wales and a	* + 1 + f 20 * [1 - 1]	Carrier I
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.20	Not Detected	0.65	Not Detected
Container Type: NA - Not Applicable				
Surrogates		%Recovery		Method Limits
Toluene-d8		100		70-130

SAMPLE NAME: CCV

ID#: 0406241B-04A

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Compound				%Recovery
Benzene				84
Container Type: NA - Not A	pplicable			
Surrogates		%Recovery		Method Limits
Toluene-d8		98		70-130

SAMPLE NAME: LCS

ID#: 0406241B-05A

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territoria. 1986: Anna de la companya di Santa	Est.	of stylings to a first the co-
Compound		%Recover
Benzene		92
Container Type: NA - No	t Applicable	
		Method
Surrogates	%Rec	overy Limits
Toluene-d8	10	70-130



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	and Time:	Turn Around Time:		Project info:	Proje	:		>ch Illing		rson Fobia	Contact Person	_
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WORK ORDER #: 0406241C

Work Order Summary

CLIENT: Ms. Robin Schilling BILL TO: Ms. Robin Schilling

ENSR

ENSR

27755 Diehl Road 27755 Diehl Road Suite 100 Suite 100

Warrenville, IL 60555 Warrenville, IL 60555

2017826 PHONE: 630-836-1700 P.O. #

FAX: 630-836-1711 PROJECT # 01005-093-300 Hartford

DATE RECEIVED: 6/12/2004 CONTACT: DeDe Dodge DATE COMPLETED: 6/25/2004

			RECEIPT
FRACTION#	NAME	<u>TEST</u>	VAC/PRES.
01A	134-B E. Watkins	Modified TO-15	6.5 "Hg
02A	134-1 E. Watkins	Modified TO-15	7.5 "Hg
02AA	134-1 E. Watkins Duplicate	Modified TO-15	7.5 "Hg
03A	130-B E. Watkins	Modified TO-15	0 "Hg
04A	Lab Blank	Modified TO-15	NA
05A	CCV	Modified TO-15	NA
06A	LCS	Modified TO-15	NA

Sinda d. Fruman 06/25/04 CERTIFIED BY: DATE:

Laboratory Director

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE Modified TO-15 ENSR Workorder# 0406241C

Three 6 Liter Summa Canister samples were received on June 12, 2004. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	TO-14A/TO-15	ATL Modifications
BFB acceptance criteria	CLP protocol (TO-15)	SW-846 protocol
Concentration of IS spike	10 ppbv (TO-15)	25 ppbv
Dilutions for initial calibration	Dynamic dilutions or static using canisters	Syringe dilutions
Daily CCV	= 30% Difference</td <td><!--= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers</p--></td>	= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers</p
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43.	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58.
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Sample Drying System	Nafion Dryer (TO-14A)	Multisorbent
Sample Load Volume	400 mL (TO-14A)	Varied to 0.2 L.
Blank Acceptance Criteria.	< 0.20 ppbv (TO-14A)	< RL
BFB Absolute Abundance Criteria (TO-14A)	Within 10% of that from the previous day.	CCV internal standard area counts are compared to ICAL, corrective action for > 40 % D.
Initial Calibration	= 30 %RSD (TO-14A)</td <td><!--= 30 % RSD with 2 compounds allowed out to </= 40 % RSD.</td--></td>	= 30 % RSD with 2 compounds allowed out to </= 40 % RSD.</td
IS Recoveries	Within 40% of mean over ICAL for blanks, and within 40 % of daily CCV for samples. (TO-15)	Within 40% of CCV recoveries for blank and samples.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated Peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

SAMPLE NAME: 134-B E. Watkins

ID#: 0406241C-01A

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Storman	a Maria da de la como	المناسبة والمناسبة والمناس	Properties :	THE PROPERTY.
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.86	Not Detected	4.3	Not Detected
Freon 114	0.86	Not Detected	6.1	Not Detected
Chloromethane	3.4	Not Detected	7.2	Not Detected
Vinyl Chloride	0.86	Not Detected	2.2	Not Detected
1,3-Butadiene	0.86	Not Detected	1.9	Not Detected
Bromomethane	0.86	Not Detected	3.4	Not Detected
Chloroethane	0.86	Not Detected	2.3	Not Detected
Freon 11	0.86	Not Detected	4.9	Not Detected
Ethanol	3.4	4.7	6.5	9.0
Freon 113	0.86	Not Detected	6.7	Not Detected
1.1-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Acetone	3.4	6.4	8.2	16
2-Propanol	3.4	Not Detected	8.5	Not Detected
Carbon Disulfide	0.86	Not Detected	2.7	Not Detected
3-Chloropropene	3.4	Not Detected	11	Not Detected
Methylene Chloride	0.86	Not Detected	3.0	Not Detected
Methyl tert-butyl ether	0.86	Not Detected	3.1	Not Detected
trans-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Hexane	0.86	150	3.1	550
Vinyl Acetate	3.4	Not Detected	12	Not Detected
1,1-Dichloroethane	0.86	Not Detected	3.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.86	1.8	2.6	5.5
cis-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Tetrahydrofuran	0.86	Not Detected	2.6	Not Detected
Chloroform	0.86	Not Detected	4.2	Not Detected
1,1,1-Trichloroethane	0.86	Not Detected	4.7	Not Detected
	0.86	31	3.0	110
Cyclohexane	0.86	Not Detected	5.5	Not Detected
Carbon Tetrachloride	0.86	30	4.0	140
2,2,4-Trimethylpentane	0.86	1.2	2.8	3.8
Benzene		Not Detected	3.5	Not Detected
1,2-Dichloroethane	0.86		3.6	53
Heptane	0.86	13	3.6 4 .7	
Trichloroethene	0.86	Not Detected		Not Detected
1,2-Dichloropropane	0.86	Not Detected	4.0	Not Detected
1,4-Dioxane	3.4	Not Detected	12	Not Detected
Bromodichloromethane	0.86	Not Detected	5.8	Not Detected
cis-1,3-Dichloropropene	0.86	Not Detected	3.9	Not Detected
4-Methyl-2-pentanone	0.86	Not Detected	3.6	Not Detected
Toluene	0.86	1.8	3.3	7.1
trans-1,3-Dichloropropene	0.86	Not Detected	3.9	Not Detected
1,1,2-Trichloroethane	0.86	Not Detected	4.7	Not Detected
Tetrachloroethene	0.86	Not Detected	5.9	Not Detected

SAMPLE NAME: 134-B E. Watkins

ID#: 0406241C-01A

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Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Hexanone	3.4	Not Detected	14	Not Detected
Dibromochloromethane	0.86	Not Detected	7.4	Not Detected
1,2-Dibromoethane (EDB)	0.86	Not Detected	6.7	Not Detected
Chlorobenzene	0.86	Not Detected	4.0	Not Detected
Ethyl Benzene	0.86	Not Detected	3.8	Not Detected
m,p-Xylene	0.86	Not Detected	3.8	Not Detected
o-Xylene	0.86	Not Detected	3.8	Not Detected
Styrene	0.86	Not Detected	3.7	Not Detected
Bromoform	0.86	Not Detected	9.0	Not Detected
Cumene_	0.86	Not Detected	4.3	Not Detected
1,1,2,2-Tetrachloroethane	0.86	Not Detected	6.0	Not Detected
Propylbenzene	0.86	Not Detected	4.3	Not Detected
4-Ethyltoluene	0.86	Not Detected	4.3	Not Detected
1,3,5-Trimethylbenzene	0.86	Not Detected	4.3	Not Detected
1,2,4-Trimethylbenzene	0.86	Not Detected	4.3	Not Detected
1,3-Dichlorobenzene	0.86	Not Detected	5.2	Not Detected
1,4-Dichlorobenzene	0.86	Not Detected	5.2	Not Detected
alpha-Chlorotoluene	0.86	Not Detected	4.5	Not Detected
1,2-Dichlorobenzene	0.86	Not Detected	5.2	Not Detected
1,2,4-Trichlorobenzene	3.4	Not Detected	26	Not Detected
Hexachlorobutadiene	3.4	Not Detected	37	Not Detected

		Method Limits	
Surrogates	%Rесочегу		
Toluene-d8	98	70-130	
1,2-Dichloroethane-d4	99	70-130	
4-Bromofluorobenzene	101	70-130	

SAMPLE NAME: 134-1 E. Watkins

ID#: 0406241C-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

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Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.90	Not Detected	4.5	Not Detected
Freon 114	0.90	Not Detected	6.4	Not Detected
Chloromethane	3.6	Not Detected	7.5	Not Detected
Vinyl Chloride	0.90	Not Detected	2.3	Not Detected
1,3-Butadiene	0.90	Not Detected	2.0	Not Detected
Bromomethane	0.90	Not Detected	3.5	Not Detected
Chloroethane	0.90	Not Detected	2.4	Not Detected
Freon 11	0.90	Not Detected	5.1	Not Detected
Ethanol	3.6	10	6.8	20
Freon 113	0.90	Not Detected	7.0	Not Detected
1,1-Dichloroethene	0.90	Not Detected	3.6	Not Detected
Acetone	3.6	6.8	8.6	16
2-Propanol	3.6	Not Detected	8.9	Not Detected
Carbon Disulfide	0.90	Not Detected	2.8	Not Detected
3-Chloropropene	3.6	Not Detected	11	Not Detected
Methylene Chloride	0.90	Not Detected	3.2	Not Detected
Methyl tert-butyl ether	0.90	Not Detected	3.3	Not Detected
trans-1,2-Dichloroethene	0.90	Not Detected	3.6	Not Detected
Hexane	0.90	29	3.2	100
Vinyl Acetate	3.6	Not Detected	13	Not Detected
1,1-Dichloroethane	0.90	Not Detected	3.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.90	1.7	2.7	5.2
cis-1,2-Dichloroethene	0.90	Not Detected	3.6	Not Detected
Tetrahydrofuran	0.90	Not Detected	2.7	Not Detected
Chloroform	0.90	Not Detected	4.4	Not Detected
1,1,1-Trichloroethane	0.90	Not Detected	5.0	Not Detected
Cyclohexane	0.90	5.8	3.1	20
Carbon Tetrachloride	0.90	Not Detected	5.7	Not Detected
2,2,4-Trimethylpentane	0.90	6.6	4.2	31
Benzene	0.90	1.2	2.9	4.1
1,2-Dichloroethane	0.90	Not Detected	3.7	Not Detected
Heptane	0.90	2.4	3.7	10
Trichloroethene	0.90	Not Detected	4.9	Not Detected
1,2-Dichloropropane	0.90	Not Detected	4.2	Not Detected
1,4-Dioxane	3.6	Not Detected	13	Not Detected
Bromodichloromethane	0.90	Not Detected	6.1	Not Detected
cis-1,3-Dichloropropene	0.90	Not Detected	4.1	Not Detected
4-Methyl-2-pentanone	0.90	Not Detected	3.7	Not Detected
Toluene	0.90	2.6	3.4	10
trans-1,3-Dichloropropene	0.90	Not Detected	4.1	Not Detected
1,1,2-Trichloroethane	0.90	Not Detected	5.0	Not Detected
Tetrachloroethene	0.90	Not Detected	6.2	Not Detected

SAMPLE NAME: 134-1 E. Watkins

1D#: 0406241C-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

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Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Hexanone	3.6	Not Detected	15	Not Detected
Dibromochloromethane	0.90	Not Detected	7.7	Not Detected
1,2-Dibromoethane (EDB)	0.90	Not Detected	7.0	Not Detected
Chlorobenzene	0.90	Not Detected	4.2	Not Detected
Ethyl Benzene	0.90	Not Detected	3.9	Not Detected
m,p-Xylene	0.90	Not Detected	4.0	Not Detected
o-Xylene	0.90	Not Detected	4.0	Not Detected
Styrene	0.90	Not Detected	3.9	Not Detected
Bromoform	0.90	Not Detected	9.4	Not Detected
Cumene	0.90	Not Detected	4.5	Not Detected
1,1,2,2-Tetrachloroethane	0.90	Not Detected	6.2	Not Detected
Propylbenzene	0.90	Not Detected	4.5	Not Detected
4-Ethyltoluene	0.90	Not Detected	4.5	Not Detected
1,3,5-Trimethylbenzene	0.90	Not Detected	4.5	Not Detected
1,2,4-Trimethylbenzene	0.90	Not Detected	4.5	Not Detected
1,3-Dichlorobenzene	0.90	Not Detected	5.5	Not Detected
1,4-Dichlorobenzene	0.90	Not Detected	5.5	Not Detected
alpha-Chlorotoluene	0.90	Not Detected	4.7	Not Detected
1,2-Dichlorobenzene	0.90	Not Detected	5.5	Not Detected
1,2,4-Trichlorobenzene	3.6	Not Detected	27	Not Detected
Hexachlorobutadiene	3.6	Not Detected	39	Not Detected

Container Type: 6 Liter Summa Canister

••		Method
Surrogates	%Recovery	Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	97	70-130

SAMPLE NAME: 134-1 E. Watkins Duplicate

ID#: 0406241C-02AA

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Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.90	Not Detected	4.5	Not Detected
Freon 114	0.90	Not Detected	6.4	Not Detected
Chloromethane	3.6	Not Detected	7.5	Not Detected
Vinyl Chloride	0.90	Not Detected	2.3	Not Detected
1,3-Butadiene	0.90	Not Detected	2.0	Not Detected
Bromomethane	0.90	Not Detected	3.5	Not Detected
Chloroethane	0.90	Not Detected	2.4	Not Detected
Freon 11	0.90	Not Detected	5.1	Not Detected
Ethanol	3.6	9.9	6.8	19
Freon 113	0.90	Not Detected	7.0	Not Detected
1,1-Dichloroethene	0.90	Not Detected	3.6	Not Detected
Acetone	3.6	6.8	8.6	16
2-Propanol	3.6	Not Detected	8.9	Not Detected
Carbon Disulfide	0.90	Not Detected	2.8	Not Detected
3-Chloropropene	3.6	Not Detected	11	Not Detected
Methylene Chloride	0.90	Not Detected	3.2	Not Detected
Methyl tert-butyl ether	0.90	Not Detected	3.3	Not Detected
trans-1,2-Dichloroethene	0.90	Not Detected	3.6	Not Detected
Hexane	0.90	29	3.2	100
Vinyl Acetate	3.6	Not Detected	13	Not Detected
1,1-Dichloroethane	0.90	Not Detected	3.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.90	1.7	2.7	5.2
cis-1,2-Dichloroethene	0.90	Not Detected	3.6	Not Detected
Tetrahydrofuran	0.90	Not Detected	2.7	Not Detected
Chloroform	0.90	Not Detected	4.4	Not Detected
1,1,1-Trichloroethane	0.90	Not Detected	5.0	Not Detected
Cyclohexane	0.90	5.7	3.1	20
Carbon Tetrachloride	0.90	Not Detected	5.7	Not Detected
2,2,4-Trimethylpentane	0.90	6.6	4.2	32
Benzene	0.90	1.2	2.9	3.8
1,2-Dichloroethane	0.90	Not Detected	3.7	Not Detected
Heptane	0.90	2.6	3.7	11
Trichloroethene	0.90	Not Detected	4.9	Not Detected
1,2-Dichloropropane	0.90	Not Detected	4.2	Not Detected
1,4-Dioxane	3.6	Not Detected	13	Not Detected
Bromodichloromethane	0.90	Not Detected	6.1	Not Detected
cis-1,3-Dichloropropene	0.90	Not Detected	4.1	Not Detected
4-Methyl-2-pentanone	0.90	Not Detected	3.7	Not Detected
Toluene	0.90	2.7	3.4	10
trans-1,3-Dichloropropene	0.90	Not Detected	4.1	Not Detected
1,1,2-Trichloroethane	0.90	Not Detected	5.0	Not Detected
Tetrachloroethene	0.90	Not Detected	6.2	Not Detected

SAMPLE NAME: 134-1 E. Watkins Duplicate

ID#: 0406241C-02AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

\$400000	STORY)		Daniel Salvalor	
plik (1991). Orazon (m. 1864).	and the dealers of the second	and the second of the second o	202120	STATE OF THE STATE
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Hexanone	3.6	Not Detected	15	Not Detected
Dibromochloromethane	0.90	Not Detected	7.7	Not Detected
1,2-Dibromoethane (EDB)	0.90	Not Detected	7.0	Not Detected
Chlorobenzene	0.90	Not Detected	4.2	Not Detected
Ethyl Benzene	0.90	Not Detected	3.9	Not Detected
m,p-Xylene	0.90	Not Detected	4.0	Not Detected
o-Xylene	0.90	Not Detected	4.0	Not Detected
Styrene	0.90	Not Detected	3.9	Not Detected
Bromoform	0.90	Not Detected	9.4	Not Detected
Cumene	0.90	Not Detected	4.5	Not Detected
1,1,2,2-Tetrachloroethane	0.90	Not Detected	6.2	Not Detected
Propylbenzene	0.90	Not Detected	4.5	Not Detected
4-Ethyltoluene	0.90	Not Detected	4.5	Not Detected
1,3,5-Trimethylbenzene	0.90	Not Detected	4.5	Not Detected
1,2,4-Trimethylbenzene	0.90	Not Detected	4.5	Not Detected
1,3-Dichlorobenzene	0.90	Not Detected	5.5	Not Detected
1,4-Dichlorobenzene	0.90	Not Detected	5.5	Not Detected
alpha-Chlorotoluene	0.90	Not Detected	4.7	Not Detected
1,2-Dichlorobenzene	0.90	Not Detected	5.5	Not Detected
1,2,4-Trichlorobenzene	3.6	Not Detected	27	Not Detected
Hexachlorobutadiene	3.6	Not Detected	39	Not Detected

Container Type: 6 Liter Summa Canister

••		Method
Surrogates	%Recovery	Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	95	70-130

SAMPLE NAME: 130-B E. Watkins

ID#: 0406241C-03A

a (1995)	(dispress	The control of the co	On Solen Charles	3,2,7
Eller Flags III			Android Problem	MEDICAL MULRY
o	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Freon 12	0.67	Not Detected	3.4	Not Detected
Freon 114	0.67	Not Detected	4.8	Not Detected
Chloromethane	2.7	Not Detected	5.6	Not Detected
Vinyl Chloride	0.67	Not Detected	1.7	Not Detected
1,3-Butadiene	0.67	Not Detected	1.5	Not Detected
Bromomethane	0.67	Not Detected	2.6	Not Detected
Chloroethane	0.67	Not Detected	1.8	Not Detected
Freon 11	0.67	Not Detected	3.8	Not Detected
Ethanol	2.7	590 E	5.1	1100 E
Freon 113	0.67	Not Detected	5.2	Not Detected
1,1-Dichloroethene	0.67	Not Detected	2.7	Not Detected
Acetone	2.7	74	6.5	180
2-Propanol	2.7	120	6.7	300
Carbon Disulfide	0.67	Not Detected	2.1	Not Detected
3-Chloropropene	2.7	Not Detected	8.5	Not Detected
Methylene Chloride	0.67	Not Detected	2.4	Not Detected
Methyl tert-butyl ether	0.67	Not Detected	2.4	Not Detected
trans-1,2-Dichloroethene	0.67	Not Detected	2.7	Not Detected
Hexane	0.67	180	2.4	640
Vinyl Acetate	2.7	Not Detected	9.6	Not Detected
1,1-Dichloroethane	0.67	Not Detected	2.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.67	4.2	2.0	12
cis-1,2-Dichloroethene	0.67	Not Detected	2.7	Not Detected
Tetrahydrofuran	0.67	Not Detected	2.0	Not Detected
Chloroform	0.67	Not Detected	3.3	Not Detected
1,1,1-Trichloroethane	0.67	Not Detected	3.7	Not Detected
Cyclohexane	0.67	65	2.3	230
Carbon Tetrachloride	0.67	Not Detected	4.3	Not Detected
2,2,4-Trimethylpentane	0.67	94	3.2	450
Benzene	0.67	3.3	2.2	11
1.2-Dichloroethane	0.67	Not Detected	2.8	Not Detected
Heptane	0.67	12	2.8	51
Trichloroethene	0.67	Not Detected	3.6	Not Detected
1,2-Dichloropropane	0.67	Not Detected	3.1	Not Detected
1,4-Dioxane	2.7	Not Detected	9.8	Not Detected
Bromodichloromethane	0.67	Not Detected	4.6	Not Detected
	0.67	Not Detected	4.6 3.1	Not Detected
cis-1,3-Dichloropropene		Not Detected	2.8	
4-Methyl-2-pentanone	0.67			Not Detected
Toluene	0.67	5.3	2.6	20
trans-1,3-Dichloropropene	0.67	Not Detected	3.1	Not Detected
1,1,2-Trichloroethane	0.67	Not Detected	3.7	Not Detected
Tetrachloroethene	0.67	0.83	4.6	5.7

SAMPLE NAME: 130-B E. Watkins

ID#: 0406241C-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

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Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Hexanone	2.7	Not Detected	11	Not Detected
Dibromochloromethane	0.67	Not Detected	5.8	Not Detected
1,2-Dibromoethane (EDB)	0.67	Not Detected	5.2	Not Detected
Chlorobenzene	0.67	Not Detected	3.1	Not Detected
Ethyl Benzene	0.67	0.94	3.0	4.1
m,p-Xylene	0.67	2.5	3.0	11
o-Xylene	0.67	0.78	3.0	3.4
Styrene	0.67	0.93	2.9	4.0
Bromoform	0.67	Not Detected	7.0	Not Detected
Cumene	0.67	Not Detected	3.3	Not Detected
1,1,2,2-Tetrachloroethane	0.67	Not Detected	4.7	Not Detected
Propylbenzene	0.67	Not Detected	3.3	Not Detected
4-Ethyltoluene	0.67	Not Detected	3.3	Not Detected
1,3,5-Trimethylbenzene	0.67	Not Detected	3.3	Not Detected
1,2,4-Trimethylbenzene	0.67	Not Detected	3.3	Not Detected
1,3-Dichlorobenzene	0.67	Not Detected	4.1	Not Detected
1,4-Dichlorobenzene	0.67	0.71	4.1	4.4
alpha-Chlorotoluene	0.67	Not Detected	3.5	Not Detected
1,2-Dichlorobenzene	0.67	Not Detected	4.1	Not Detected
1,2,4-Trichlorobenzene	2.7	Not Detected	20	Not Detected
Hexachlorobutadiene	2.7	Not Detected	29	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister

•		Method
Surrogates	%Rесочегу	Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	99	70-130

SAMPLE NAME: Lab Blank

ID#: 0406241C-04A

9100116 : 30 935	DOWN)		n ge aback Laga	en Singerijaset
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.6	Not Detected
Chloromethane	2.0	Not Detected	4.2	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	2.0	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.9	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	5.0	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.4	Not Detected
Methylene Chloride	0.50	Not Detected	1.8	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
Vinyl Acetate	2.0	Not Detected	7.2	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone) cis-1,2-Dichloroethene	0.50 0.50	Not Detected Not Detected	1.5 2.0	Not Detected
•	0.50	Not Detected	1.5	Not Detected Not Detected
Tetrahydrofuran Chloroform	0.50	Not Detected	2.5	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.8	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Cyclonexane Carbon Tetrachloride	0.50	Not Detected	3.2	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.4	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.1	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.3	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.1	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.8	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
renacimoroentene	0.50	Hot Detected	J. 4	1401 Detected

SAMPLE NAME: Lab Blank

ID#: 0406241C-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

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n () () () () () () () () () (Militar Maddido San Cara	Lago Principal States and the Company of the Compan		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Hexanone	2.0	Not Detected	8.3	Not Detected
Dibromochloromethane	0.50	Not Detected	4.3	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.9	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.2	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.5	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.5	Not Detected
Propylbenzene	0.50	Not Detected	2.5	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.5	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	22	Not Detected

Container Type: NA - Not Applicable

		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	99	70-130	
1,2-Dichloroethane-d4	98	70-130	
4-Bromofluorobenzene	94	70-130	

SAMPLE NAME: CCV

ID#: 0406241C-05A

Compound	%Recovery
Freon 12	110
Freon 114	101
Chloromethane	108
Vinyl Chloride	112
1,3-Butadiene	102
Bromomethane	119
Chloroethane	126
Freon 11	104
Ethanol	99
Freon 113	107
1,1-Dichloroethene	104
Acetone	96
2-Propanol	98
Carbon Disulfide	97
3-Chloropropene	104
Methylene Chloride	93
Methyl tert-butyl ether	106
trans-1,2-Dichloroethene	105
Hexane	101
Vinyl Acetate	102
1,1-Dichloroethane	106
2-Butanone (Methyl Ethyl Ketone)	108
cis-1,2-Dichloroethene	104
Tetrahydrofuran	102
Chloroform	108
1,1,1-Trichloroethane	110
Cyclohexane	108
Carbon Tetrachloride	112
2,2,4-Trimethylpentane	105
Benzene	97
1,2-Dichloroethane	102
Heptane	106
Trichloroethene	104
1,2-Dichloropropane	101
1,4-Dioxane	98
Bromodichloromethane	110
cis-1,3-Dichloropropene	105
4-Methyl-2-pentanone	108
Toluene	101
trans-1,3-Dichloropropene	107
1,1,2-Trichloroethane	106
Tetrachloroethene	105

SAMPLE NAME: CCV

ID#: 0406241C-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

FEDERAL DESCRIPTION OF THE PROPERTY OF THE PRO

Compound	%Recovery
2-Hexanone	101
Dibromochloromethane	116
1,2-Dibromoethane (EDB)	109
Chlorobenzene	104
Ethyl Benzene	106
m,p-Xylene	108
o-Xylene	105
Styrene	113
Bromoform	122
Cumene	109
1,1,2,2-Tetrachloroethane	105
Propylbenzene	111
4-Ethyltoluene	106
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	104
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	104
alpha-Chlorotoluene	107
1,2-Dichlorobenzene	101
1,2,4-Trichlorobenzene	96
Hexachlorobutadiene	88

Container Type: NA - Not Applicable

		Method
Surrogates	%Recovery	Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	101	70-130

SAMPLE NAME: LCS

ID#: 0406241C-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

STDEAST - ST

Compound	%Recovery
Freon 12	100
Freon 114	101
Chloromethane	89
Vinyl Chloride	104
1,3-Butadiene	97
Bromomethane	119
Chloroethane	108
Freon 11	106
Ethanol	94
Freon 113	101
1,1-Dichloroethene	102
Acetone	97
2-Propanol	86
Carbon Disulfide	99
3-Chloropropene	91
Methylene Chloride	84
Methyl tert-butyl ether	110
trans-1,2-Dichloroethene	105
Hexane	101
Vinyl Acetate	122
1,1-Dichloroethane	104
2-Butanone (Methyl Ethyl Ketone)	109
cis-1,2-Dichloroethene	103
Tetrahydrofuran	105
Chloroform	109
1,1,1-Trichloroethane	119
Cyclohexane	108
Carbon Tetrachloride	118
2,2,4-Trimethylpentane	90
Benzene	108
1,2-Dichloroethane	112
Heptane	107
Trichloroethene	114
1,2-Dichloropropane	115
1,4-Dioxane	99
Bromodichloromethane	108
cis-1,3-Dichloropropene	118
4-Methyl-2-pentanone	113
Toluene	103
trans-1,3-Dichloropropene	120
1,1,2-Trichloroethane	112
Tetrachloroethene	107

SAMPLE NAME: LCS

ID#: 0406241C-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Compound %Recovery 107 2-Hexanone Dibromochloromethane 113 106 1,2-Dibromoethane (EDB) 107 Chlorobenzene 106 Ethyl Benzene m,p-Xylene 105 o-Xylene 101 Styrene 116 **Bromoform** 105 Cumene 94 111 1,1,2,2-Tetrachloroethane 70 Propylbenzene 103 4-Ethyltoluene 97 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene 92 105 1,3-Dichlorobenzene 99 1,4-Dichlorobenzene alpha-Chlorotoluene 140 Q 102 1,2-Dichlorobenzene 120 1,2,4-Trichlorobenzene

Q = Exceeds Quality Control limits.

Hexachlorobutadiene

Container Type: NA - Not Applicable

		Method
Surrogates	%Recovery	Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	97	70-130

102

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Reliquishing signsture on this document indicates that sample is being shipped in compliance FOLSOM, CA 95630-4719
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AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0406241D

Work Order Summary

CLIENT:

Ms. Robin Schilling

BILL TO: Ms. Robin Schilling

ENSR

27755 Diehl Road

Warrenville, IL 60555

27755 Diehl Road

Suite 100

Warrenville, IL 60555

PHONE:

630-836-1700

2017826 P.O. #

FAX:

630-836-1711

PROJECT#

01005-093-300 Hartford

DATE RECEIVED:

6/12/04

ENSR

Suite 100

CONTACT: DeDe Dodge

DATE COMPLETED:

6/28/04

			RECEIPT
FRACTION#	NAME	TEST	YAC./PRES.
01A	134-B E. Watkins	Modified TO-15/TICs	6.5 "Hg
02A	134-1 E. Watkins	Modified TO-15/T1Cs	7.5 "Hg
03A	130-B E. Watkins	Modified TO-15/TICs	0 "Hg
04A	Lab Blank	Modified TO-15/TICs	NA
05A	CCV	Modified TO-15/TICs	NA

CERTIFIED BY:

Sinda d. Fruman

06/28/04 DATE:

Laboratory Director

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE Ozone Precursors by Modified TO-15 ENSR Workorder# 0406241D

Three 6 Liter Summa Canister samples were received on June 12, 2004. The laboratory performed analysis for Ozone Precursors via Modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	TO-15	ATL Modifications
BFB acceptance criteria	CLP protocol	SW-846 protocol
IS Recoveries	60- 140% of mean over ICAL for blanks, and w/in 60- 140% of daily CCV for samples.	Within 60-140% of CCV recoveries for blank and samples.
Dilutions for initial calibration	Dynamic dilutions or static using canisters	Syringe dilutions
Daily CCV	70 - 130 %	60-140% for 90% of the target compounds
Concentration of IS spike	10 ppbv	25 ppbv
Concentration of IS spike	10 ppbv	25 ppbv

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The reported CCV for each daily batch may be derived from more than one individual analytical file due to the client's request for non-standard compounds.

Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

Specific analytes that are requested by the client to be reported as tentatively identified compounds (TICs) are determined by searching for each compound's characteristic spectra. If no chromatographic peak displaying the compound specific spectra exists, then the TIC is reported as not detected. Please note that the laboratory has not evaluated the stability of any heretofore tentatively identified compound in the vapor phase or for efficiency of recovery through the analytical system.

The daily calibration standard (CCV) analyzed on 06/24/04 did not meet method required acceptance criteria of 70-130% recovery for 4-Ethyltoluene. Recovery was high and no hits were detected in the associated samples. There was no impact on sample results.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction no performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

SAMPLE NAME: 134-B E. Watkins

1D#: 0406241D-01A

MC	DUIFIED EPA METHOL	10-13 GC/M3 FU	LL SCAIN	and the second second
PENTAGE . Salar of a companion.	EDRO	e consulta fallendi (e) associa	en loganisa k	Radordaso a. Sero
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Benzene	8.6	Not Detected	28	Not Detected
Ethyl Benzene	8.6	Not Detected	38	Not Detected
Styrene	8.6	Not Detected	37	Not Detected
Toluene	8.6	Not Detected	33	Not Detected
1,2,4-Trimethylbenzene	8.6	Not Detected	43	Not Detected
1,3,5-Trimethylbenzene	8.6	Not Detected	43	Not Detected
m,p-Xylene	8.6	Not Detected	38	Not Detected
o-Xylene	8.6	Not Detected	38	Not Detected
Butane	34	450	83	1100
1-Butene	34	Not Detected	80	Not Detected
cis-2-Butene	34	Not Detected	80	Not Detected
trans-2-butene	34	Not Detected	80	Not Detected
Cyclohexane	34	Not Detected	120	Not Detected
Cyclopentane	34	35	100	100
2,2-Dimethylbutane	34	47	120	170
2,3-Dimethylbutane	34	96	120	340
2,3-Dimethylpentane	34	Not Detected	140	Not Detected
2,4-Dimethylpentane	34	Not Detected	140	Not Detected
Heptane	34	Not Detected	140	Not Detected
Hexane	34	150	120	560
Isoprene	34	Not Detected	97	Not Detected
Cumene	34	Not Detected	170	Not Detected
Isopentane	34	1200	100	3800
Methylcyclohexane	34	Not Detected	140	Not Detected
Methylcyclopentane	34	84	120	300
2-Methylheptane	34	Not Detected	160	Not Detected
3-Methylheptane	34	Not Detected	160	Not Detected
2-Methylhexane	34	36	140	150
3-Methylhexane	34	45	140	190
2-Methylpentane	34	310	120	1100
3-Methylpentane	34	200	120	720
Isobutane	34	140	83	330
Nonane	34	Not Detected	180	Not Detected
Octane	34	Not Detected	160	Not Detected
Pentane	34	670	100	2000
1-Pentene	34	Not Detected	100	Not Detected
cis-2-Pentene	34	Not Detected	100	Not Detected
trans-2-Pentene	34	48	100	140
Propylbenzene	34	Not Detected	170	Not Detected
2,2,4-Trimethylpentane	34	Not Detected	160	Not Detected
2,3,4-Trimethylpentane	34	Not Detected	160	Not Detected
- · · · · · · · · · · · · · · · · · · ·	34	Not Detected	120	Not Detected
1-Hexene	J 4	HOL DELECTED	120	. Tot Detected

SAMPLE NAME: 134-B E. Watkins

ID#: 0406241D-01A

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	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
3-Ethyltoluene	34	Not Detected	170	Not Detected
I-Ethyltoluene	34	Not Detected	170	Not Detected
?-Ethyltoluene	34	Not Detected	170	Not Detected
Decane	34	Not Detected	200	Not Detected
1,2,3-Trimethylbenzene	34	Not Detected	170	Not Detected
,3-Diethylbenzene	34	Not Detected	190	Not Detected
,4-Diethylbenzene	34	Not Detected	190	Not Detected
Jndecane	34	Not Detected	220	Not Detected
cis-2-Hexene	86	Not Detected	300	Not Detected
rans-2-Hexene	86	Not Detected	300	Not Detected
alpha-Pinene	86	Not Detected	480	Not Detected
oeta-Pinene	86	Not Detected	480	Not Detected
Cyclopentene	34	Not Detected	97	Not Detected
1-Undecene	86	Not Detected	550	Not Detected
1-Decene	86	Not Detected	500	Not Detected
1-Nonene	34	Not Detected	180	Not Detected
1-Octene	34	Not Detected	160	Not Detected
1-Heptene	34	Not Detected	140	Not Detected
1,3-Butadiene	8.6	Not Detected	19	Not Detected
	TENTATIVELY IDEN	TIFIED COMPOUND	os	
Compound		CAS Number	Match Quality	Amount ppbv
·				
Dodecane		112-40-3	NA NA	Not Detected
1-Dodecene		112-41-4	NA NA	Not Detected
Tridecane		629-50-5	NA	Not Detected
Container Type: 6 Liter Sumn	na Canister			Method
Surrogates		%Recovery		Limits
1,2-Dichloroethane-d4		106		70-130
Toluene-d8		100		70-130
4-Bromofluorobenzene		99		70-130

SAMPLE NAME: 134-1 E. Watkins

ID#: 0406241D-02A

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Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	1.8	Not Detected	5.8	Not Detected
Ethyl Benzene	1.8	Not Detected	7.9	Not Detected
Styrene	1.8	Not Detected	7.7	Not Detected
Toluene	1.8	2.7	6.8	10
,2,4-Trimethylbenzene	1.8	Not Detected	8.9	Not Detected
,3,5-Trimethylbenzene	1.8	Not Detected	8.9	Not Detected
n,p-Xylene	1.8	Not Detected	7.9	Not Detected
>-Xylene	1.8	Not Detected	7.9	Not Detected
Butane	7.2	99	17	240
l-Butene	7.2	Not Detected	17	Not Detected
cis-2-Butene	7.2	Not Detected	17	Not Detected
rans-2-butene	7.2	Not Detected	17	Not Detected
Cyclohexane	7.2	Not Detected	25	Not Detected
Cyclopentane	7.2	Not Detected	21	Not Detected
2,2-Dimethylbutane	7.2	11	26	41
2,3-Dimethylbutane	7.2	22	26	78
2,3-Dimethylpentane	7.2	Not Detected	30	Not Detected
2,4-Dimethylpentane	7.2	Not Detected	30	Not Detected
Heptane	7.2	Not Detected	30	Not Detected
Hexane	7.2	31	26	110
soprene	7.2	Not Detected	20	Not Detected
Cumene	7.2	Not Detected	36	Not Detected
sopentane	7.2	280	21	820
Methylcyclohexane	7.2	Not Detected	29	Not Detected
Methylcyclopentane	7.2	15	25	53
2-Methylheptane	7.2	Not Detected	34	Not Detected
3-Methylheptane	7.2	Not Detected	34	Not Detected
2-Methylhexane	7.2	7.2	30	30
3-Methylhexane	7.2	8.8	30	37
2-Methylpentane	7.2	67	26	240
3-Methylpentane	7.2	42	26	150
Isobutane	7.2	36	17	88
Nonane	7.2	Not Detected	38	Not Detected
Octane	7.2	Not Detected	34	Not Detected
Pentane	7.2	140	21	410
1-Pentene	7.2	Not Detected	21	Not Detected
cis-2-Pentene	7.2	Not Detected	21	Not Detected
trans-2-Pentene	7.2	10	21	30
Propylbenzene	7.2	Not Detected	36	Not Detected
2,2,4-Trimethylpentane	7.2	Not Detected	34	Not Detected
2,3,4-Trimethylpentane	7.2	Not Detected	34	Not Detected
1-Hexene	7.2	Not Detected	25	Not Detected

SAMPLE NAME: 134-1 E. Watkins

ID#: 0406241D-02A

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			-miraininan v	252200000000000000000000000000000000000
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
3-Ethyltoluene	7.2	Not Detected	36	Not Detected
4-Ethyltoluene	7.2	Not Detected	36	Not Detected
2-Ethyltoluene	7.2	Not Detected	36	Not Detected
Decane	7.2	Not Detected	42	Not Detected
1,2,3-Trimethylbenzene	7.2	Not Detected	36	Not Detected
1,3-Diethylbenzene	7.2	Not Detected	40	Not Detected
1,4-Diethylbenzene	7.2	Not Detected	40	Not Detected
Jndecane	7.2	Not Detected	46	Not Detected
cis-2-Hexene	18	Not Detected	62	Not Detected
rans-2-Hexene	18	Not Detected	63	Not Detected
alpha-Pinene	18	Not Detected	100	Not Detected
beta-Pinene	18	Not Detected	100	Not Detected
Cyclopentene	7.2	Not Detected	20	Not Detected
1-Undecene	18	Not Detected	110	Not Detected
1-Decene	18	Not Detected	100	Not Detected
1-Nonene	7.2	Not Detected	38	Not Detected
1-Octene	7.2	Not Detected	33	Not Detected
1-Heptene	7.2	Not Detected	29	Not Detected
1,3-Butadiene	1.8	Not Detected	4.0	Not Detected
	TENTATIVELY IDEN	ITIFIED COMPOUND	s	
		646N :		Amount
Compound		CAS Number	Match Quality	ppbv
Dodecane		112-40-3	NA	Not Detected
1-Dodecene		112-41-4	NA	Not Detected
Tridecane		629-50-5	NA	Not Detected
Container Type: 6 Liter Summ	na Canister			
Surrogates		%Recovery		Method Limits
		114		70-130
1 2-Dichloroethane-d4				
1,2-Dichloroethane-d4 Toluene-d8		100		70-130 70-130

SAMPLE NAME: 130-B E. Watkins

ID#: 0406241D-03A

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Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	19	Not Detected	62	Not Detected
Ethyl Benzene	19	Not Detected	84	Not Detected
Styrene	19	Not Detected	83	Not Detected
Toluene	19	Not Detected	73	Not Detected
1,2,4-Trimethylbenzene	19	Not Detected	96	Not Detected
I,3,5-Trimethylbenzene	19	Not Detected	96	Not Detected
n,p-Xylene	19	Not Detected	84	Not Detected
-Xylene	19	Not Detected	84	Not Detected
Butane	77	810	180	1900
1-Butene	77	Not Detected	180	Not Detected
cis-2-Butene	77	Not Detected	180	Not Detected
rans-2-butene	77	Not Detected	180	Not Detected
Cyclohexane	77	Not Detected	270	Not Detected
Cyclopentane	77	Not Detected	220	Not Detected
2,2-Dimethylbutane	77	180	270	650
2,3-Dimethylbutane	77	340	270	1200
2,3-Dimethylpentane	77	76 J	320	320
2,4-Dimethylpentane	77	76 J	320	320
Heptane	77	Not Detected	320	Not Detected
Hexane	77	200	270	730
Isoprene	77	Not Detected	220	Not Detected
Cumene	 77	Not Detected	380	Not Detected
Isopentane	77	3600	230	11000
Methylcyclohexane	77	Not Detected	310	Not Detected
Methylcyclopentane	77	150	270	510
2-Methylheptane	77	Not Detected	360	Not Detected
3-Methylheptane	77	Not Detected	360	Not Detected
2-Methylhexane	77	76 J	320	320
3-Methylhexane	77	94	320	390
2-Methylpentane	77	840	270	3000
3-Methylpentane	77	520	270	1900
	77	420	180	1000
Isobutane Nonane	77	Not Detected	410	Not Detected
Octane	77	Not Detected	360	Not Detected
Pentane	77	1300	230	3800
1-Pentene	77	Not Detected	220	Not Detected
	77	Not Detected Not Detected	220	Not Detected
cis-2-Pentene trans-2-Pentene		Not Detected	220	Not Detected
	77 77			
Propylbenzene	77 77	Not Detected	380	Not Detected 500
2,2,4-Trimethylpentane	77	100	360	***************************************
2,3,4-Trimethylpentane	77	Not Detected	360	Not Detected
1-Hexene	77	Not Detected	270	Not Detected

SAMPLE NAME: 130-B E. Watkins

ID#: 0406241D-03A

Rpt. Limit (ppbv) (ppbv) (ppbv) (uG/m3) (uG/m3) 3-Ethyltoluene 77 Not Detected 380 Not Detected 4-Ethyltoluene 77 Not Detected 380 Not Detected 2-Ethyltoluene 77 Not Detected 380 Not Detected 2-Ethyltoluene 77 Not Detected 380 Not Detected Decane 77 Not Detected 450 Not Detected	atracticos Bristoel	30 23		多数150.5%的16.5%。在表示。 - 建设元的基础的16.5%是是是具体16.5%。	
4-Ethyltoluene 77 Not Detected 380 Not Detected 2-Ethyltoluene 77 Not Detected 450 Not Detected 1,2-3-Trimethylbenzene 77 Not Detected 380 Not Detected 1,2-3-Trimethylbenzene 77 Not Detected 430 Not Detected 1,4-Diethylbenzene 77 Not Detected 430 Not Detected 1,4-Diethylbenzene 77 Not Detected 500 Not Detected 2-Ethyltoluene 77 Not Detected 500 Not Detected 2-Ethyltoluene 190 Not Detected 670 Not Detected 2-Ethyltoluene 190 Not Detected 670 Not Detected 2-Ethyltoluene 190 Not Detected 1100 Not Detected 2-Ethyltoluene 190 Not Detected 1100 Not Detected 2-Ethyltoluene 190 Not Detected 1100 Not Detected 2-Ethyltoluene 190 Not Detected 1200 Not Detected 2-Ethyltoluene 190 Not Detected 1200 Not Detected 1-Undecene 190 Not Detected 1200 Not Detected 1-Decene 190 Not Detected 1100 Not Detected 1-Decene 190 Not Detected 360 Not Detected 1-Decene 190 Not Detected 310 Not Detected 1-Detecte 1-Decene 190 Not Detected 310 Not Detected 1-Detecte 1-Decene 190 Not Detected 310 Not Detected 1-Detected 1-Detected 1-Detected 190 Not Detected 310 Not Detected 1-Detected 1-Detected 190 Not Detected 310 Not Detected 1-Detected 1-Detected 190 Not Detected 1-Detected 190 Not Detected 1-Detected 190 Not Detected 190 Not Detected 1-Detected 190 Not Detected 1-Detected 190 Not Detected 1-Detected 190 Not Detected 190 Not Detected 1-Detected 190 Not Detected 190 Not Detected 1-Detected 190 Not Detected	Compound			Rpt. Limit	Amount
2-Ethyltoluene 77	3-Ethyltoluene	77	Not Detected	380	Not Detected
Decane 77	4-Ethyltoluene	77	Not Detected	380	Not Detected
1,2,3-1rimethylbenzene 77	2-Ethyltoluene	77	Not Detected	380	Not Detected
1,3-Diethylbenzene 77 Not Detected 430 Not Detected 1,4-Diethylbenzene 77 Not Detected 430 Not Detected 1,4-Diethylbenzene 77 Not Detected 500 Not Detected Undecane 77 Not Detected 500 Not Detected cis-2-Hexene 190 Not Detected 670 Not Detected dalpha-Pinene 190 Not Detected 670 Not Detected alpha-Pinene 190 Not Detected 1100 Not Detected Cyclopentene 77 Not Detected 1200 Not Detected 1-Undecene 190 Not Detected 1200 Not Detected 1-Decene 190 Not Detected 1100 Not Detected 1-Nonene 77 Not Detected 1100 Not Detected 1-Nonene 77 Not Detected 360 Not Detected 1-Heptene 77 Not Detected 310 Not Detected 1,3-Butadiene 19 Not Detected </td <td>Decane</td> <td>77</td> <td>Not Detected</td> <td>450</td> <td>Not Detected</td>	Decane	77	Not Detected	450	Not Detected
1,4-Diethylbenzene	1,2,3-Trimethylbenzene	77	Not Detected	380	Not Detected
Variable	1,3-Diethylbenzene	77	Not Detected	430	Not Detected
190 Not Detected 670 Not Detected 190 Not Detected 670 Not Detected 190 Not Detected 670 Not Detected 190 Not Detected 1100 Not Detected 1200	1,4-Diethylbenzene	77	Not Detected	430	Not Detected
trans-2-Hexene 190 Not Detected 670 Not Detected alpha-Pinene 190 Not Detected 1100 Not Detected beta-Pinene 190 Not Detected 1100 Not Detected Cyclopentene 77 Not Detected 220 Not Detected 1-Undecene 190 Not Detected 1200 Not Detected 1-Decene 190 Not Detected 1100 Not Detected 1-Nonene 77 Not Detected 400 Not Detected 1-Nonene 77 Not Detected 360 Not Detected 1-Heptene 77 Not Detected 310 Not Detected 1,3-Butadiene 19 Not Detected 43 Not Detected 1,3-Butadiene 19 Not Detected 43 Not Detected 1,3-Butadiene 19 Not Detected 43 Not Detected 1-Dodecene 112-40-3 NA Not Detected 1-Dodecene 112-41-4 NA Not Detected <	Undecane	77	Not Detected	500	Not Detected
Application	cis-2-Hexene	190	Not Detected	670	Not Detected
Deta-Pinene	trans-2-Hexene	190	Not Detected	670	Not Detected
Cyclopentene 77 Not Detected 220 Not Detected 1-Undecene 190 Not Detected 1200 Not Detected 1-Decene 190 Not Detected 1100 Not Detected 1-Nonene 77 Not Detected 400 Not Detected 1-Octene 77 Not Detected 360 Not Detected 1-Heptene 77 Not Detected 310 Not Detected 1,3-Butadiene 19 Not Detected 43 Not Detected 1,3-Butadiene 19 Not Detected 43 Not Detected TENTATIVELY IDENTIFIED COMPOUNDS Amount ppbv Dodecane 112-40-3 NA Not Detected 1-Dodecane 112-40-3 NA Not Detected Tridecane 629-50-5 NA Not Detected Tridecane 629-50-5 NA Not Detected Jestimated value. Container Type: 6 Liter Summa Canister Method Limits 1,2-Dichloroethane-d4 115	alpha-Pinene	190	Not Detected	1100	Not Detected
1-Undecene	beta-Pinene	190	Not Detected	1100	Not Detected
1-Decene	Cyclopentene	77	Not Detected	220	Not Detected
1-Nonene	1-Undecene	190	Not Detected	1200	Not Detected
1-Octene 77 Not Detected 360 Not Detected 1-Heptene 77 Not Detected 310 Not Detected 1,3-Butadiene 19 Not Detected 43 Not Detected TENTATIVELY IDENTIFIED COMPOUNDS Amount ppbv Compound CAS Number Match Quality ppbv Dodecane 112-40-3 NA Not Detected 1-Dodecene 112-41-4 NA Not Detected Tridecane 629-50-5 NA Not Detected J = Estimated value. Container Type: 6 Liter Summa Canister Method Surrogates %Recovery Limits 1,2-Dichloroethane-d4 115 70-130 Toluene-d8 100 70-130	1-Decene	190	Not Detected	1100	Not Detected
1-Heptene 77 Not Detected 310 Not Detected TENTATIVELY IDENTIFIED COMPOUNDS Amount ppbv Compound CAS Number Match Quality ppbv Dodecane 112-40-3 NA Not Detected 1-Dodecene 112-41-4 NA Not Detected Tridecane 629-50-5 NA Not Detected J = Estimated value. Container Type: 6 Liter Summa Canister Method Surrogates %Recovery Limits 1,2-Dichloroethane-d4 115 70-130 Toluene-d8 100 70-130	1-Nonene	77	Not Detected	400	Not Detected
TENTATIVELY IDENTIFIED COMPOUNDS Amount ppbw Compound CAS Number Match Quality Amount ppbw Dodecane 112-40-3 NA Not Detected 1-Dodecene 112-41-4 NA Not Detected Tridecane 629-50-5 NA Not Detected J = Estimated value. Container Type: 6 Liter Summa Canister Surrogates %Recovery Limits 1,2-Dichloroethane-d4 115 70-130 Toluene-d8 100 70-130	1-Octene	77	Not Detected	360	Not Detected
TENTATIVELY IDENTIFIED COMPOUNDS Compound CAS Number Match Quality ppbv Dodecane 112-40-3 NA Not Detected 1-Dodecene 112-41-4 NA Not Detected Tridecane 629-50-5 NA Not Detected J = Estimated value. Container Type: 6 Liter Summa Canister Method Surrogates %Recovery Limits 1,2-Dichloroethane-d4 115 70-130 Toluene-d8 100	1-Heptene	77	Not Detected	310	Not Detected
CompoundCAS NumberMatch QualityAmount ppbvDodecane112-40-3NANot Detected1-Dodecene112-41-4NANot DetectedTridecane629-50-5NANot DetectedJ = Estimated value.Container Type: 6 Liter Summa CanisterSurrogates%RecoveryMethod1,2-Dichloroethane-d411570-130Toluene-d810070-130	1,3-Butadiene	19	Not Detected	43	Not Detected
Compound CAS Number Match Quality ppbv Dodecane 112-40-3 NA Not Detected 1-Dodecene 112-41-4 NA Not Detected Tridecane 629-50-5 NA Not Detected J = Estimated value. Container Type: 6 Liter Summa Canister Surrogates %Recovery Method 1,2-Dichloroethane-d4 115 70-130 Toluene-d8 100 70-130		TENTATIVELY IDEN	ITIFIED COMPOUND	s	
Dodecane	Compound		CAS Number	Match Quality	
Tridecane 629-50-5 NA Not Detected J = Estimated value. Container Type: 6 Liter Summa Canister Method Surrogates %Recovery Limits 1,2-Dichloroethane-d4 115 70-130 Toluene-d8 100 70-130	Dodecane		112-40-3	NA	Not Detected
J = Estimated value. Container Type: 6 Liter Summa Canister Method Surrogates %Recovery Limits 1,2-Dichloroethane-d4 115 70-130 Toluene-d8 100 70-130	1-Dodecene		112-41-4	NA	Not Detected
Container Type: 6 Liter Summa Canister Surrogates %Recovery Limits 1,2-Dichloroethane-d4 115 70-130 Toluene-d8 100 70-130	Tridecane		629-50-5	NA	Not Detected
Surrogates %Recovery Method Limits 1,2-Dichloroethane-d4 115 70-130 Toluene-d8 100 70-130					
Surrogates %Recovery Limits 1,2-Dichloroethane-d4 115 70-130 Toluene-d8 100 70-130	Container Type: 6 Liter Sumn	na Canister			Method
Toluene-d8 100 70-130	Surrogates		%Recovery		
	1,2-Dichloroethane-d4		115		70-130
4-Bromofluorobenzene 97 70-130	Toluene-d8		100		70-130
	4-Bromofluorobenzene		97		70-130

SAMPLE NAME: Lab Blank

1D#: 0406241D-04A

Pinistan District	VET3210		enting gentlement The property of the	September 1997
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.50	Not Detected	1.6	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.2	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Butane	2.0	Not Detected	4.8	Not Detected
1-Butene	2.0	Not Detected	4.7	Not Detected
cis-2-Butene	2.0	Not Detected	4.7	Not Detected
trans-2-butene	2.0	Not Detected	4.7	Not Detected
Cyclohexane	2.0	Not Detected	7.0	Not Detected
Cyclopentane	2.0	Not Detected	5.8	Not Detected
2,2-Dimethylbutane	2.0	Not Detected	7.2	Not Detected
2,3-Dimethylbutane	2.0	Not Detected	7.2	Not Detected
2,3-Dimethylpentane	2.0	Not Detected	8.3	Not Detected
2,4-Dimethylpentane	2.0	Not Detected	8.3	Not Detected
Heptane	2.0	Not Detected	8.3	Not Detected
Hexane	2.0	Not Detected	7.2	Not Detected
Isoprene	2.0	Not Detected	5.7	Not Detected
Cumene	2.0	Not Detected	10	Not Detected
Isopentane	2.0	Not Detected	6.0	Not Detected
Methylcyclohexane	2.0	Not Detected	8.2	Not Detected
Methylcyclopentane	2.0	Not Detected	7.0	Not Detected
2-Methylheptane	2.0	Not Detected	9.5	Not Detected
3-Methylheptane	2.0	Not Detected	9.5	Not Detected
2-Methylhexane	2.0	Not Detected	8.3	Not Detected
3-Methylhexane	2.0	Not Detected	8.3	Not Detected
2-Methylpentane	2.0	Not Detected	7.2	Not Detected
3-Methylpentane	2.0	Not Detected	7.2	Not Detected
Isobutane	2.0	Not Detected	4.8	Not Detected
Nonane	2.0	Not Detected	11	Not Detected
Octane	2.0	Not Detected	9.5	Not Detected
Pentane	2.0	Not Detected	6.0	Not Detected
1-Pentene	2.0	Not Detected	5.8	Not Detected
cis-2-Pentene	2.0	Not Detected	5.8	Not Detected
trans-2-Pentene	2.0	Not Detected	5.8	Not Detected
Propylbenzene	2.0	Not Detected	10	Not Detected
2,2,4-Trimethylpentane	2.0	Not Detected	9.5	Not Detected
2,3,4-Trimethylpentane	2.0	Not Detected	9.5	Not Detected
1-Hexene	2.0	Not Detected	7.0	Not Detected

SAMPLE NAME: Lab Blank

ID#: 0406241D-04A

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Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
3-Ethyltoluene	2.0	Not Detected	10	Not Detected
4-Ethyltoluene	2.0	Not Detected	10	Not Detected
2-Ethyltoluene	2.0	Not Detected	10	Not Detected
Decane	2.0	Not Detected	12	Not Detected
1,2,3-Trimethylbenzene	2.0	Not Detected	10	Not Detected
1,3-Diethylbenzene	2.0	Not Detected	11	Not Detected
1,4-Diethylbenzene	2.0	Not Detected	11	Not Detected
Undecane	2.0	Not Detected	13	Not Detected
cis-2-Hexene	5.0	Not Detected	17	Not Detected
trans-2-Hexene	5.0	Not Detected	17	Not Detected
alpha-Pinene	5.0	Not Detected	28	Not Detected
beta-Pinene	5.0	Not Detected	28	Not Detected
Cyclopentene	2.0	Not Detected	5.7	Not Detected
1-Undecene	5.0	Not Detected	32	Not Detected
1-Decene	5.0	Not Detected	29	Not Detected
1-Nonene	2.0	Not Detected	10	Not Detected
1-Octene	2.0	Not Detected	9.3	Not Detected
1-Heptene	2.0	Not Detected	8.2	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
	TENTATIVELY IDEN	ITIFIED COMPOUND	s	
				Amount
Compound		CAS Number	Match Quality	ppbv
Dodecane		112-40-3	NA	Not Detected
1-Dodecene		112-41-4	NA	Not Detected
Tridecane		629-50-5	NA	Not Detected
Container Type: NA - Not Applicable				BA - Al 1
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		110		70-130
Toluene-d8		100		70-130
4-Bromofluorobenzene		100		70-130

SAMPLE NAME: CCV

ID#: 0406241D-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

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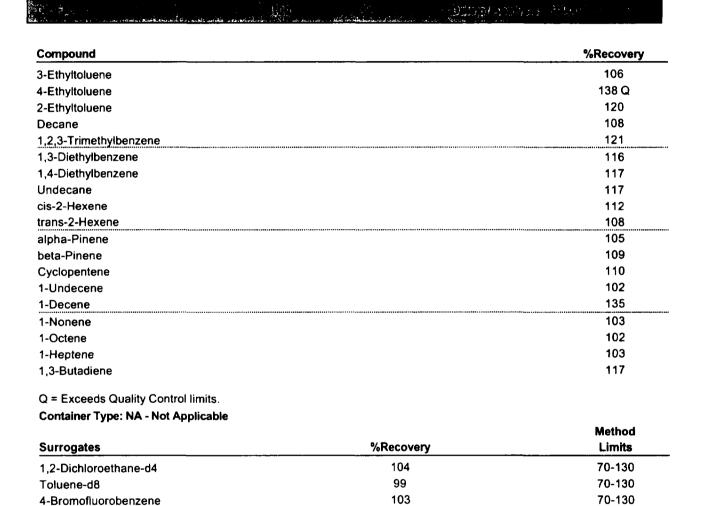
Compound	%Recovery
Benzene	103
Ethyl Benzene	103
Styrene	112
Toluene	104
1,2,4-Trimethylbenzene	114
1,3,5-Trimethylbenzene	113
m,p-Xylene	107
o-Xylene	105
Butane	112
1-Butene	102
cis-2-Butene	111
trans-2-butene	114
Cyclohexane	104
Cyclopentane	111
2,2-Dimethylbutane	111
2,3-Dimethylbutane	108
2,3-Dimethylpentane	102
2,4-Dimethylpentane	104
Heptane	103
Hexane	105
Isoprene	113
Cumene	113
Isopentane	114
Methylcyclohexane	101
Methylcyclopentane	100
2-Methylheptane	101
3-Methylheptane	101
2-Methylhexane	105
3-Methylhexane	103
2-Methylpentane	105
3-Methylpentane	105
Isobutane	123
Nonane	106
Octane	101
Pentane	112
1-Pentene	113
cis-2-Pentene	112
trans-2-Pentene	112
Propylbenzene	124
2,2,4-Trimethylpentane	102
2,3,4-Trimethylpentane	99
1-Hexene	106

SAMPLE NAME: CCV

ID#: 0406241D-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

30331



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Reinquishing signature on this document indicates that sample is baing shipped in compliance FOLSOM, CA 95630-4719
with all applicable local, State, Feberal, national, and international laws, regulations and (918) 985-1000 FAX: (916) 985-1020
ordinances of any kind, Air Texics United assumes no Lability with respect to the cellection, handing of shipping of these samptes, Relanguishing signstume also indicates agreement to hold harmless, defenc, and indemnify Air Toxics Limited against any claim, comand, or attion of any ford, related to the collection, handling, or shipping of samples. D.D.T. Hotline (800) 457-4922.

Page 4 of L

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Contact P	Company	Phone		3 0.	30	Ø24	•								Feelingshood	S permits of		Neibiguismec E		Leb	o Zino



WORK ORDER #: 0406241E

Work Order Summary

CLIENT: Ms. Robin Schilling BILL TO: Ms. Robin Schilling

ENSR

27755 Diehl Road

Suite 100

Warrenville, IL 60555

.....

6/12/2004

PHONE: 630-836-1700 **P.O.** # 2017826

FAX: 630-836-1711 PROJECT # 01005-093-300 Hartford

DATE RECEIVED: 0/12/2004 CONTACT: DeDe Dodge
DATE COMPLETED: 6/28/2004

			ALCEII I
FRACTION #	<u>NAME</u>	<u>TEST</u>	VAC/PRES.
01A	134-B E. Watkins	Air Toxics Ltd. @ 82	6.5 "Hg
02A	134-1 E. Watkins	Air Toxics Ltd. @ 82	7.5 "Hg
03A	130-B E. Watkins	Air Toxics Ltd. @ 82	0.0 "Hg
04A	Lab Blank	Air Toxics Ltd. @ 82	NA
05A	LCS	Air Toxics Ltd. @ 82	NA

CERTIFIED BY:

DATE RECEIVED:

Sinda d. Fruman

DATE: 06/28/04

ENSR

Suite 100

27755 Diehl Road

Warrenville, IL 60555

DECEIPT

Laboratory Director

Certification numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

LABORATORY NARRATIVE Air Toxics Ltd @82 ENSR Workorder# 0406241E

Three 6 Liter Summa Canister samples were received on June 12, 2004. The laboratory performed analysis for Ethane, Ethene, Acetylene, Propane and Propylene via Air Toxics Limited Method @82. This method describes direct injection of a 1.0 ml sample through a fixed sampling loop followed by GC/FID. See the data sheets for the reporting limit for each compound.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

- B Compound present in laboratory blank greater than reporting limit.
- J Estimated value.
- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the detection limit.
- M Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue

SAMPLE NAME: 134-B E. Watkins

ID#: 0406241E-01A

AIT TOXICS LTD. @ 82 GC/FID

(20)1170 Di 271 201 271		ইচ্ছেন্ডিয়ে এ এইটা মুক্তাটিয়ে এ এইটা এই দৰ্শন এইটা
Compound	Rpt. Limit (ppbv)	Amount (ppbv)
Ethane	86	Not Detected
Ethene	86	Not Detected
Acetylene	86	Not Detected
Propane	86	Not Detected
Propylene	86	Not Detected

SAMPLE NAME: 134-1 E. Watkins

ID#: 0406241E-02A

AIT TOXICS LTD. @ 82 GC/FID

30 3,0 53	(*2031)		elseidigede Pagais steidegedes
Compound		Rpt. Limit (ppbv)	Amount (ppbv)
Ethane		90	Not Detected
Ethene		90	Not Detected
Acetylene		90	Not Detected
Propane		90	Not Detected
Propylene		90	Not Detected

SAMPLE NAME: 130-B E. Watkins

ID#: 0406241E-03A AIT TOXICS LTD. @ 82 GC/FID

SELL COLUMN	\$200 July		्रीक्षिक अभूखेया जन्मी जन्म
	A Committee of the Comm	to the second second second	
Compound		Rpt. Limit (ppbv)	Amount (ppbv)
Ethane		67	Not Detected
Ethene		67	Not Detected
Acetylene		67	Not Detected
Propane		67	Not Detected
Propylene		67	Not Detected

SAMPLE NAME: Lab Blank

ID#: 0406241E-04A

AIT TOXICS LTD. @ 82 GC/FID

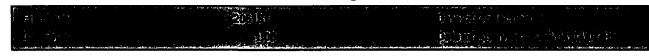
Floring 1984	203E) (13.6%)	olbaced in. Your sold the Angel Pro-
Compound	Rpt. Limit (ppbv)	Amount (ppbv)
Ethane	50	Not Detected
Ethene	50	Not Detected
Acetylene	50	Not Detected
Propane	50	Not Detected
Propylene	50	Not Detected

Container Type: NA - Not Applicable

SAMPLE NAME: LCS

ID#: 0406241E-05A

AIT TOXICS LTD. @ 82 GC/FID



Compound	%Recovery
Ethane	106
Ethene	110
Acetylene	118
Propane	110
Propylene	113

Container Type: NA - Not Applicable

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Rehousing against on this occurrent indicates that sample is being shipped in compliance FOLSOM, CA 95630-4718
with all applicable local, State, Federal, national, and international laws, regulations and (918) 985-1000 FAX; (916) 985-1020 ordinances of any kind. Air Toxics Limitec assumes no hability with respect to the collection.

handling or shipping of these samples, Relinquishing signature also indicates agreement to hold harmless, defand, and indemnify. Air Toxics Lamited against any claim, demand, or sction of any kind, related to the collection, handling, or shipping of samples, D.O.T. Horine (800) 467-4922.

Page L of L

Date & Time	Contect Person Rebin Shilling	11:09	Project info:	Turn Around Time:	•	
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9/04-1818		Date & Time	Analyses Requested (ALL L)	Canister Pressur	e / Vacuum Receipt	
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AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0406241F

Work Order Summary

CLIENT:

Ms. Robin Schilling

BILL TO:

Ms. Robin Schilling

ENSR

ENSR 27755 Diehl Road Suite 100

27755 Diehl Road

Suite 100

Warrenville, IL 60555

Warrenville, IL 60555

PHONE:

630-836-1700

P.O. # 2017826

FAX:

630-836-1711

PROJECT#

01005-093-300 Hartford

DATE RECEIVED:

6/12/04

CONTACT:

DeDe Dodge

6/24/04 DATE COMPLETED:

			RECEIPT
FRACTION#	NAME	TEST	YAC./PRES.
01A	134-B E. Watkins	Modified ASTM D-1946	6.5 "Hg
02A	134-1 E. Watkins	Modified ASTM D-1946	7.5 "Hg
03A	130-B E. Watkins	Modified ASTM D-1946	0 "Hg
04A	Lab Blank	Modified ASTM D-1946	NA
05A	LCS	Modified ASTM D-1946	NA

CER	TI	FI	FD	RV.

Sinda d. Fruman

DATE: 06/24/04

Laboratory Director

Certification numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- Al 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE Modified ASTM D-1946 ENSR

Workorder# 0406241F

Three 6 Liter Summa Canister samples were received on June 12, 2004. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample. See the data sheets for the reporting limits for each compound.

Requirement	ASTM D-1946	ATL Modifications
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a >/= 95% accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL (2.0 mL for He and H2) on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 30% RPD for detections > 5 X's the RL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

- B Compound present in laboratory blank greater than reporting limit.
- J Estimated value.
- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the detection limit.
- M Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue

SAMPLE NAME: 134-B E. Watkins

ID#: 0406241F-01A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

RUNIS. Dis Alab	A CONTRACTOR OF THE PROPERTY O	Billiagen bidd Digwys Billion (2007 A)
Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.17	20
Methane	0.00017	0.00036
Carbon Dioxide	0.017	0.065

SAMPLE NAME: 134-1 E. Watkins

ID#: 0406241F-02A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

Para Place	- 1、1990年代の (A. 1997年) (A. 1997	
	Marie	H. B. C. Halles and Co.
Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.18	20
Methane	0.00018	0.00030
Carbon Dioxide	0.018	0.056

SAMPLE NAME: 130-B E. Watkins

ID#: 0406241F-03A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

		doellos del s Opera, ledado desa pol
Compound	Rpt. Limit (%)	Amount
Oxygen	0.13	21
Methane	0.00013	0.00036
Carbon Dioxide	0.013	0.095

SAMPLE NAME: Lab Blank ID#: 0406241F-04A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

POMEN Antiblê en la basar e alaca	Section of the sectio	Constitution of Physics of All
Compound	Rpt. Limit (%)	Amount
Oxygen	0.10	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected

Container Type: NA - Not Applicable

SAMPLE NAME: LCS

ID#: 0406241F-05A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946



Compound	%Recovery
Oxygen	93
Methane	100
Carbon Dioxide	100

Container Type: NA - Not Applicable

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CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Reinquishing signature on this decument indicates that sample a being shipped in compliance FOLSOM, CA 95630-4719
with all applicable local, State, Federal, national, and international lews, regulations and (916) 905-1000 FAX; (918) 985-1020 ordinances of any knd. Air Toxics Limited assumes no hability with respect to the collection.

harmless, defend, and indemnify Air Toxics Limited against any claim, commod, or action of any ideal, related to the collection, handling, or shipping of samples, D.O.T. Hothrie (BOC) 467-4522 handing or shipping of these samples. Reinquisting signsture also indicates agreement to hold

APPENDIX E

Field Sample ID	Sample Location Description	Type/Container	Laboratory Sample ID	Analysis	Method
MP-22 Watkins	East Watkins Street monitoring	Soil Vapor/Grab Summa	0406249A-01A	Benzene rerun	Mod. TO-15
	point MP-22.	Canister	0406249B-01A	VOCs	Mod. TO-15
ľ		0406249C-01A	VOCs	Mod. TO-15	
			0406249D-01A	Additional VOCs	@ 82 GC/FID
			0406249E-01A	Mod. Natural Gas	ASTM D-1946
MP-23 Watkins	East Watkins Street monitoring	Soil Vapor/Grab Summa	0406249A-02A	Benzene rerun	Mod. TO-15
point MP-23.	point MP-23.	Canister	0406249B-02A	VOCs	Mod. TO-15
			0406249C-02A	VOCs	Mod. TO-15
			0406249D-02A	Additional VOCs	@ 82 GC/FID
			0406249E-02A	Mod. Natural Gas	ASTM D-1946



0406249A **WORK ORDER #:**

Work Order Summary

CLIENT: Ms. Robin Schilling BILL TO: Ms. Robin Schilling

ENSR

ENSR 27755 Diehl Road

27755 Diehl Road

Warrenville, IL 60555

Suite 100

Suite 100

Warrenville, IL 60555

PHONE: 630-836-1700

2017826

FAX:

630-836-1711

PROJECT # 01005-093-360 Hartford

DECEIDT

DATE RECEIVED:

6/14/2004

CONTACT: DeDe Dodge

DATE COMPLETED: 6/28/2004

			RECEIFT
FRACTION#	<u>NAME</u>	TEST	VAC./PRES.
01A	MP-22 Watkins	Modified TO-15	5.0 "Hg
02A	MP-23 Watkins	Modified TO-15	5.0 "Hg
02AA	MP-23 Watkins Duplicate	Modified TO-15	5.0 "Hg
03A	Lab Blank	Modified TO-15	NA
04A	CCV	Modified TO-15	NA
05A	LCS	Modified TO-15	NA

	Sinda d. Frumas		06/28/04
CERTIFIED BY:		DATE:	J0/28/04

Laboratory Director

Certification numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05 Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE Modified TO-15 ENSR Workorder# 0406249A

Two 6 Liter Summa Canister samples were received on June 14, 2004. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	TO-14A/TO-15	ATL Modifications
BFB acceptance criteria	CLP protocol (TO-15)	SW-846 protocol
Concentration of IS spike	10 ppbv (TO-15)	25 ppbv
Dilutions for initial calibration	Dynamic dilutions or static using canisters	Syringe dilutions
Daily CCV	= 30% Difference</td <td><!--= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers</p--></td>	= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers</p
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43.	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58.
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Sample Drying System	Nafion Dryer (TO-14A)	Multisorbent
Sample Load Volume	400 mL (TO-14A)	Varied to 0.2 L.
Blank Acceptance Criteria.	< 0.20 ppbv (TO-14A)	< RL
BFB Absolute Abundance Criteria (TO-14A)	Within 10% of that from the previous day.	CCV internal standard area counts are compared to ICAL, corrective action for > 40 % D.
Initial Calibration	= 30 %RSD (TO-14A)</td <td><!--= 30 % RSD with 2 compounds allowed out to </= 40 % RSD.</td--></td>	= 30 % RSD with 2 compounds allowed out to </= 40 % RSD.</td
IS Recoveries	Within 40% of mean over ICAL for blanks, and within 40 % of daily CCV for samples. (TO-15)	Within 40% of CCV recoveries for blank and samples.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated Peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

SAMPLE NAME: MP-22 Watkins

ID#: 0406249A-01A

Gundino Natable	(103) s (107)	(5)3		Substantian Strains	
Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
Benzene	540	160000	1700	510000	
Container Type: 6 Liter S	umma Canister				
Surrogates		%Recovery		Method Limits	
Toluene-d8	99 70-130		70-130		

SAMPLE NAME: MP-23 Watkins

ID#: 0406249A-02A

Alann Dies	iii3D		idang i salasis gang enarya sar	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	160	34000	520	110000
Container Type: 6 Liter Su	mma Canister			
Surrogates		%Recovery		Method Limits
Toluene-d8		103 70-130		

SAMPLE NAME: MP-23 Watkins Duplicate

ID#: 0406249A-02AA

Piston Okaz	(100 mg)		ednis (a szemene) szadástánnyas – 8	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	160	34000	520	110000
Container Type: 6 Liter Su	ımma Canister			
Surrogates		%Recovery		Method Limits
Toluene-d8	<u></u>	103 70-130		70-130

SAMPLE NAME: Lab Blank

ID#: 0406249A-03A

antido.	30800		ental Colosiani	
11. 7. 5.	March Come 2 minutes		and an area	为国际基础程序。
Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.50	Not Detected	1.6	Not Detected
Container Type: NA - Not A	pplicable			
Surrogates		%Recovery		Method Limits
Toluene-d8		100		70-130

SAMPLE NAME: CCV

ID#: 0406249A-04A

Ain dag	83031302	(D) 10 1 10 10 10 10 10 10 10 10 10 10 10 1
the first of the same was the description of the same	Samuel Boy and Market and the same	STATE OF A STATE OF S
Compound		%Recovery
Benzene		88
Container Type: NA - Not	Applicable	
		Method
Surrogates		very Limits
Toluene-d8	100	70-130

SAMPLE NAME: LCS

1D#: 0406249A-05A

利305180 1. 所表記記	n de la companya della companya della companya de la companya della companya dell	Description of the second of t
Compound		%Recovery
Benzene		94
Container Type: NA - Not Applicable		
Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Reinquishing signature or this document not each that sample is being shipped in compliance FOLS with all applicable local, State, Federal, national, and international laws, regulations and (916) critinances of any kind. At Toxics Limited assumes no liability with respect to the orderior, handling or at poling of these samples. Relinquishing signature also indicates agreement to hale harmiess, defends and indemnify. Air Toxics, Limited against any claim, demand, or action of any land, neared to the colection. handling, or shipping of samples, D.O.T., Hodine (900), 467-4922.

ii C		51020
BLUE HAVINE HOAD, SUILE B	19	FAX: (916) 966-1020
Ş	SOM, CA 95630-4719	FAX
Ž	8 43	3) 985-1000
Š	S	886

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0406249B

Work Order Summary

CLIENT:

Ms. Robin Schilling

BILL TO: Ms. Robin Schilling

ENSR

27755 Diehl Road

Warrenville, IL 60555

ENSR

27755 Diehl Road

Suite 100

Suite 100

Warrenville, IL 60555

PHONE:

630-836-1700

P.O. #

2017826

FAX:

05B

630-836-1711

PROJECT # 01005-093-360 Hartford

DATE RECEIVED:

6/14/04

CONTACT: DeDe Dodge

DATE COMPLETED:

6/28/04

FRACTION# **NAME** MP-22 Watkins 01A MP-23 Watkins 02A 03A Lab Blank 03B Lab Blank 04A **CCV** 04B **CCV** LCS 05A

LCS

	RECEIPT
TEST	YAC/PRES.
Modified TO-15	5.0 "Hg
Modified TO-15	5.0 "Hg
Modified TO-15	NA

CERTIFIED BY:

Sinda d. Fruman

06/28/04 DATE:

Laboratory Director

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE Modified TO-15 ENSR Workorder# 0406249B

Two 6 Liter Summa Canister samples were received on June 14, 2004. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	TO-14A/TO-15	ATL Modifications
BFB acceptance criteria	CLP protocol (TO-15)	SW-846 protocol
Concentration of IS spike	10 ppbv (TO-15)	25 ppbv
Dilutions for initial calibration	Dynamic dilutions or static using canisters	Syringe dilutions
Daily CCV	= 30% Difference</td <td><!--= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers</p--></td>	= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers</p
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43.	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58.
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Sample Drying System	Nafion Dryer (TO-14A)	Multisorbent
Sample Load Volume	400 mL (TO-14A)	Varied to 0.2 L.
Blank Acceptance Criteria.	< 0.20 ppbv (TO-14A)	< RL
BFB Absolute Abundance Criteria (TO-14A)	Within 10% of that from the previous day.	CCV internal standard area counts are compared to ICAL, corrective action for > 40 % D.
Initial Calibration	= 30 %RSD (TO-14A)</td <td><!--= 30 % RSD with 2 compounds allowed out to </= 40 % RSD.</td--></td>	= 30 % RSD with 2 compounds allowed out to </= 40 % RSD.</td
IS Recoveries	Within 40% of mean over ICAL for blanks, and within 40 % of daily CCV for samples. (TO-15)	Within 40% of CCV recoveries for blank and samples.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The daily calibration standards (CCVs) analyzed on 06/23/04 and 06/24/04 did not meet method required

acceptance criteria of 70-130% recovery for Chloroethane. Recoveries were high and no hits were detected in the associated samples. There was no impact on sample results.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated Peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue

SAMPLE NAME: MP-22 Watkins

1D#: 0406249B-01A

Fireide diversion and service				
and the second of the second o	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Freon 12	1600	Not Detected	8100	Not Detected
Freon 114	1600	Not Detected	11000	Not Detected
Chloromethane	6400	Not Detected	14000	Not Detected
Vinyl Chloride	1600	Not Detected	4200	Not Detected
1,3-Butadiene	1600	Not Detected	3600	Not Detected
Bromomethane	1600	Not Detected	6400	Not Detected
Chloroethane	1600	Not Detected	4300	Not Detected
Freon 11	1600	Not Detected	9200	Not Detected
Ethanol	6400	Not Detected	12000	Not Detected
Freon 113	1600	Not Detected	12000	Not Detected
1,1-Dichloroethene	1600	Not Detected	6500	Not Detected
Acetone	6400	Not Detected	16000	Not Detected
2-Propanol	6400	Not Detected	16000	Not Detected
Carbon Disulfide	1600	Not Detected	5100	Not Detected
3-Chloropropene	6400	Not Detected	20000	Not Detected
Methylene Chloride	1600	Not Detected	5700	Not Detected
Methyl tert-butyl ether	1600	Not Detected	5900	Not Detected
trans-1,2-Dichloroethene	1600	Not Detected	6500	Not Detected
Hexane	1600	2100000 E	5800	7400000 E
Vinyl Acetate	6400	Not Detected	23000	Not Detected
1,1-Dichloroethane	1600	Not Detected	6600	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1600	Not Detected	4800	Not Detected
cis-1,2-Dichloroethene	1600	Not Detected	6500	Not Detected
Tetrahydrofuran	1600	Not Detected	4800	Not Detected
Chloroform	1600	Not Detected	8000	Not Detected
1,1,1-Trichloroethane	1600	Not Detected	8900	Not Detected
Cyclohexane	1600	330000	5600	1100000
Carbon Tetrachloride	1600	Not Detected	10000	Not Detected
2,2,4-Trimethylpentane	1600	320000	7600	1500000
Benzene	1600	180000	5200	590000
1,2-Dichloroethane	1600	Not Detected	6600	Not Detected
Heptane	1600	310000	6700	1300000
Trichloroethene	1600	Not Detected	8800	Not Detected
1,2-Dichloropropane	1600	Not Detected	7600	Not Detected
1,4-Dioxane	6400	Not Detected	24000	Not Detected
Bromodichloromethane	1600	Not Detected	11000	Not Detected
cis-1,3-Dichloropropene	1600	Not Detected	7400	Not Detected
4-Methyl-2-pentanone	1600	Not Detected	6700	Not Detected
Toluene	1600	47000	6200	180000
trans-1,3-Dichloropropene	1600	Not Detected	7400	Not Detected
1,1,2-Trichloroethane	1600	Not Detected	8900	Not Detected
Tetrachloroethene	1600	Not Detected	11000	Not Detected

SAMPLE NAME: MP-22 Watkins

1D#: 0406249B-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

alkumo 1880a	010 3 A Maria Cara Cara Cara Cara Cara Cara Cara			
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Hexanone	6400	Not Detected	27000	Not Detected
Dibromochloromethane	1600	Not Detected	14000	Not Detected
1,2-Dibromoethane (EDB)	1600	Not Detected	12000	Not Detected
Chlorobenzene	1600	Not Detected	7500	Not Detected
Ethyl Benzene	1600	11000	7100	49000
m,p-Xylene	1600	35000	7100	160000
o-Xylene	1600	7900	7100	35000
Styrene	1600	Not Detected	7000	Not Detected
Bromoform	1600	Not Detected	17000	Not Detected
Cumene	1600	Not Detected	8000	Not Detected
1,1,2,2-Tetrachloroethane	1600	Not Detected	11000	Not Detected
Propylbenzene	1600	1600	8000	8100
4-Ethyltoluene	1600	6000	8000	30000
1,3,5-Trimethylbenzene	1600	1800	8000	8800
1,2,4-Trimethylbenzene	1600	3300	8000	16000
1,3-Dichlorobenzene	1600	Not Detected	9800	Not Detected
1,4-Dichlorobenzene	1600	Not Detected	9800	Not Detected
alpha-Chlorotoluene	1600	Not Detected	8500	Not Detected
1,2-Dichlorobenzene	1600	Not Detected	9800	Not Detected
1,2,4-Trichlorobenzene	6400	Not Detected	48000	Not Detected
Hexachlorobutadiene	6400	Not Detected	70000	Not Detected

E = Exceeds instrument calibration range.
Container Type: 6 Liter Summa Canister

•		Method
Surrogates	%Rесочегу	Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	100	70-130

SAMPLE NAME: MP-23 Watkins

ID#: 0406249B-02A

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Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1600	Not Detected	8100	Not Detected
Freon 114	1600	Not Detected	11000	Not Detected
Chloromethane	6400	Not Detected	14000	Not Detected
Vinyl Chloride	1600	Not Detected	4200	Not Detected
I,3-Butadiene	1600	Not Detected	3600	Not Detected
Bromomethane	1600	Not Detected	6400	Not Detected
Chloroethane	1600	Not Detected	4300	Not Detected
Freon 11	1600	Not Detected	9200	Not Detected
Ethanol	6400	Not Detected	12000	Not Detected
Freon 113	1600	Not Detected	12000	Not Detected
,1-Dichloroethene	1600	Not Detected	6500	Not Detected
Acetone	6400	Not Detected	16000	Not Detected
2-Propanol	6400	Not Detected	16000	Not Detected
Carbon Disulfide	1600	Not Detected	5100	Not Detected
3-Chloropropene	6400	Not Detected	20000	Not Detected
Methylene Chloride	1600	Not Detected	5700	Not Detected
Methyl tert-butyl ether	1600	Not Detected	5900	Not Detected
rans-1,2-Dichloroethene	1600	Not Detected	6500	Not Detected
Hexane	1600	1200000 E	5800	4400000 E
Vinyl Acetate	6400	Not Detected	23000	Not Detected
1,1-Dichloroethane	1600	Not Detected	6600	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1600	Not Detected	4800	Not Detected
cis-1,2-Dichloroethene	1600	Not Detected	6500	Not Detected
Tetrahydrofuran	1600	Not Detected	4800	Not Detected
Chloroform	1600	Not Detected	8000	Not Detected
1,1,1-Trichloroethane	1600	Not Detected	8900	Not Detected
Cyclohexane	1600	230000	5600	810000
Carbon Tetrachloride	1600	Not Detected	10000	Not Detected
2,2,4-Trimethylpentane	1600	200000	7600	980000
Benzene	1600	39000	5200	130000
1,2-Dichloroethane	1600	Not Detected	6600	Not Detected
Heptane	1600	180000	6700	740000
Trichloroethene	1600	Not Detected	8800	Not Detected
1,2-Dichloropropane	1600	Not Detected	7600	Not Detected
1,4-Dioxane	6400	Not Detected	24000	Not Detected
Bromodichloromethane	1600	Not Detected	11000	Not Detected
cis-1,3-Dichloropropene	1600	Not Detected	7400	Not Detected
4-Methyl-2-pentanone	1600	Not Detected	6700	Not Detected
Toluene	1600	11000	6200	43000
trans-1,3-Dichloropropene	1600	Not Detected	7400	Not Detected
1,1,2-Trichloroethane	1600	Not Detected	8900	Not Detected
Tetrachloroethene	1600	Not Detected	11000	Not Detected

SAMPLE NAME: MP-23 Watkins

1D#: 0406249B-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Hexanone	6400	Not Detected	27000	Not Detected
Dibromochloromethane	1600	Not Detected	14000	Not Detected
1,2-Dibromoethane (EDB)	1600	Not Detected	12000	Not Detected
Chlorobenzene	1600	Not Detected	7500	Not Detected
Ethyl Benzene	1600	Not Detected	7100	Not Detected
n,p-Xylene	1600	4000	7100	18000
o-Xylene	1600	Not Detected	7100	Not Detected
Styrene	1600	Not Detected	7000	Not Detected
Bromoform	1600	Not Detected	17000	Not Detected
Cumene	1600	Not Detected	8000	Not Detected
1,1,2,2-Tetrachloroethane	1600	Not Detected	11000	Not Detected
Propylbenzene	1600	Not Detected	8000	Not Detected
4-Ethyltoluene	1600	Not Detected	8000	Not Detected
1,3,5-Trimethylbenzene	1600	Not Detected	8000	Not Detected
1,2,4-Trimethylbenzene	1600	Not Detected	8000	Not Detected
1,3-Dichlorobenzene	1600	Not Detected	9800	Not Detected
1,4-Dichlorobenzene	1600	Not Detected	9800	Not Detected
alpha-Chlorotoluene	1600	Not Detected	8500	Not Detected
1,2-Dichlorobenzene	1600	Not Detected	9800	Not Detected
1,2,4-Trichlorobenzene	6400	Not Detected	48000	Not Detected
Hexachlorobutadiene	6400	Not Detected	70000	Not Detected

E = Exceeds instrument calibration range.
Container Type: 6 Liter Summa Canister

••		Method
Surrogates	%Recovery	Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	116	70-130
4-Bromofluorobenzene	103	70-130

SAMPLE NAME: Lab Blank

ID#: 0406249B-03A

all allia	7005233		250 57 831 LL C	
			DD 91 March 1999	1936 A 28 A 18 C
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.6	Not Detected
Chloromethane	2.0	Not Detected	4.2	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	2.0	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.9	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	5.0	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.4	Not Detected
Methylene Chloride	0.50	Not Detected	1.8	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
Vinyl Acetate	2.0	Not Detected	7.2	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.5	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.8	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.2	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.4	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.1	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.3	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.1	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.8	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected

SAMPLE NAME: Lab Blank

ID#: 0406249B-03A

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Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Hexanone	2.0	Not Detected	8.3	Not Detected
Dibromochloromethane	0.50	Not Detected	4.3	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.9	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.2	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.5	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.5	Not Detected
Propylbenzene	0.50	Not Detected	2.5	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.5	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	22	Not Detected
Container Type: NA - Not Applicable				
				Method
Surrogates		%Recovery		Limits
Toluene-d8		98		70-130
1,2-Dichloroethane-d4		102		70-130
4-Bromofluorobenzene		101		70-130

SAMPLE NAME: Lab Blank

ID#: 0406249B-03B

	11039 (1) (2) (3)		STADES VEGETALES	Especial and the con-
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.6	Not Detected
Chloromethane	2.0	Not Detected	4.2	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	2.0	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.9	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	5.0	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.4	Not Detected
Methylene Chloride	0.50	Not Detected	1.8	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
Vinyl Acetate	2.0	Not Detected	7.2	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.5	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.8	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.2	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.4	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.1	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.3	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.1	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.8	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected

SAMPLE NAME: Lab Blank

ID#: 0406249B-03B

aprino) Paga	15082205 2870	- 1 (A) (A) (A)	enti o (C oldene) Divo (Annya da)	eggereary)
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Hexanone	2.0	Not Detected	8.3	Not Detected
Dibromochloromethane	0.50	Not Detected	4.3	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.9	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.2	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.5	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.5	Not Detected
Propylbenzene	0.50	Not Detected	2.5	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.5	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	22	Not Detected
Container Type: NA - Not Applicable				Method
Surrogates		%Recovery		Limits
Tulius - 40		00		70 120

Surrogates	%Recovery	Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	97	70-130

SAMPLE NAME: CCV

ID#: 0406249B-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Comprehenses Questanos es assessas es a a

Compound	%Recovery
Freon 12	113
Freon 114	104
Chloromethane	110
Vinyl Chloride	113
1,3-Butadiene	109
Bromomethane	118
Chloroethane	140 Q
Freon 11	104
Ethanol	108
Freon 113	104
1,1-Dichloroethene	106
Acetone	108
2-Propanol	103
Carbon Disulfide	106
3-Chloropropene	106
Methylene Chloride	101
Methyl tert-butyl ether	118
trans-1,2-Dichloroethene	104
Hexane	108
Vinyl Acetate	112
1,1-Dichloroethane	107
2-Butanone (Methyl Ethyl Ketone)	108
cis-1,2-Dichloroethene	99
Tetrahydrofuran	83
Chloroform	103
1,1,1-Trichloroethane	104
Cyclohexane	105
Carbon Tetrachloride	105
2,2,4-Trimethylpentane	105
Benzene	98
1,2-Dichloroethane	103
Heptane	111
Trichloroethene	103
1,2-Dichloropropane	102
1,4-Dioxane	98
Bromodichloromethane	108
cis-1,3-Dichloropropene	106
4-Methyl-2-pentanone	109
Toluene	101
trans-1,3-Dichloropropene	106
1,1,2-Trichloroethane	107
Tetrachloroethene	100

SAMPLE NAME: CCV

ID#: 0406249B-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN



Compound	%Recovery
2-Hexanone	102
Dibromochloromethane	110
1,2-Dibromoethane (EDB)	106
Chlorobenzene	102
Ethyl Benzene	101
m,p-Xylene	101
o-Xylene	100
Styrene	108
Bromoform	115
Cumene	98
1,1,2,2-Tetrachloroethane	100
Propylbenzene	101
4-Ethyltoluene	100
1,3,5-Trimethylbenzene	99
1,2,4-Trimethylbenzene	97
1,3-Dichlorobenzene	99
1,4-Dichlorobenzene	99
alpha-Chlorotoluene	99
1,2-Dichlorobenzene	95
1,2,4-Trichlorobenzene	92
Hexachlorobutadiene	93

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	101	70-130	
1,2-Dichloroethane-d4	99	70-130	
4-Bromofluorobenzene	101	70-130	

SAMPLE NAME: CCV

ID#: 0406249B-04B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

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#C03x10

Compound	%Recovery
Freon 12	107
Freon 114	100
Chloromethane	99
Vinyl Chloride	109
1,3-Butadiene	104
Bromomethane	114
Chloroethane	132 Q
Freon 11	101
Ethanol	96
Freon 113	101
1,1-Dichloroethene	101
Acetone	99
2-Propanol	98
Carbon Disulfide	101
3-Chloropropene	103
Methylene Chloride	96
Methyl tert-butyl ether	114
trans-1,2-Dichloroethene	100
Hexane	103
Vinyl Acetate	102
1,1-Dichloroethane	102
2-Butanone (Methyl Ethyl Ketone)	106
cis-1,2-Dichloroethene	100
Tetrahydrofuran	78
Chloroform	100
1,1,1-Trichloroethane	101
Cyclohexane	102
Carbon Tetrachloride	102
2,2,4-Trimethylpentane	101
Benzene	97
1,2-Dichloroethane	101
Heptane	107
Trichloroethene	101
1,2-Dichloropropane	97
1,4-Dioxane	98
Bromodichloromethane	106
cis-1,3-Dichloropropene	105
4-Methyl-2-pentanone	107
Toluene	101
trans-1,3-Dichloropropene	103
1,1,2-Trichloroethane	103
Tetrachloroethene	96

SAMPLE NAME: CCV

1D#: 0406249B-04B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN



Compound	%Recovery
2-Hexanone	99
Dibromochloromethane	108
1,2-Dibromoethane (EDB)	103
Chlorobenzene	99
Ethyl Benzene	99
m,p-Xylene	98
o-Xylene	99
Styrene	106
Bromoform	112
Cumene	96
1,1,2,2-Tetrachloroethane	97
Propylbenzene	99
4-Ethyltoluene	98
1,3,5-Trimethylbenzene	96
1,2,4-Trimethylbenzene	97
1,3-Dichlorobenzene	97
1,4-Dichlorobenzene	98
alpha-Chlorotoluene	99
1,2-Dichlorobenzene	94
1,2,4-Trichlorobenzene	94
Hexachlorobutadiene	94

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	99	70-130	
1,2-Dichloroethane-d4	97	70-130	
4-Bromofluorobenzene	100	70-130	

SAMPLE NAME: LCS

1D#: 0406249B-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

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Compound	%Recovery
Freon 12	117
Freon 114	102
Chloromethane	129
Vinyl Chloride	116
1,3-Butadiene	107
Bromomethane	118
Chloroethane	155 Q
Freon 11	104
Ethanol	65
Freon 113	104
1,1-Dichloroethene	105
Acetone	111
2-Propanol	112
Carbon Disulfide	111
3-Chloropropene	95
Methylene Chloride	95
Methyl tert-butyl ether	124
trans-1,2-Dichloroethene	109
Hexane	114
Vinyl Acetate	104
1,1-Dichloroethane	111
2-Butanone (Methyl Ethyl Ketone)	139
cis-1,2-Dichloroethene	104
Tetrahydrofuran	88
Chloroform	108
1,1,1-Trichloroethane	111
Cyclohexane	110
Carbon Tetrachloride	110
2,2,4-Trimethylpentane	98
Benzene	111
1,2-Dichloroethane	113
Heptane	118
Trichloroethene	113
1,2-Dichloropropane	118
1,4-Dioxane	107
Bromodichloromethane	115
cis-1,3-Dichloropropene	110
4-Methyl-2-pentanone	123
Toluene	114
trans-1,3-Dichloropropene	113
1,1,2-Trichloroethane	116
Tetrachloroethene	108
1040000000000	.50

SAMPLE NAME: LCS

ID#: 0406249B-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

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Compound	%Recovery
2-Hexanone	119
Dibromochloromethane	117
1,2-Dibromoethane (EDB)	117
Chlorobenzene	108
Ethyl Benzene	109
m,p-Xylene	109
o-Xylene	103
Styrene	112
Bromoform	122
Cumene	70
1,1,2,2-Tetrachloroethane	106
Propylbenzene	78
4-Ethyltoluene	111
1,3,5-Trimethylbenzene	97
1,2,4-Trimethylbenzene	94
1,3-Dichlorobenzene	96
1,4-Dichlorobenzene	97
alpha-Chlorotoluene	115
1,2-Dichlorobenzene	94
1,2,4-Trichlorobenzene	103
Hexachlorobutadiene	107

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

		method	
Surrogates	%Recovery	Limits	
Toluene-d8	102	70-130	
1,2-Dichloroethane-d4	98	70-130	
4-Bromofluorobenzene	96	70-130	

SAMPLE NAME: LCS

ID#: 0406249B-05B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

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MIL

Compound	%Recovery
Freon 12	104
Freon 114	101
Chloromethane	108
Vinyl Chloride	107
1,3-Butadiene	108
Bromomethane	115
Chloroethane	137 Q
Freon 11	103
Ethanol	62
Freon 113	103
1,1-Dichloroethene	105
Acetone	111
2-Propanol	113
Carbon Disulfide	113
3-Chloropropene	97
Methylene Chloride	96
Methyl tert-butyl ether	130
trans-1,2-Dichloroethene	109
Hexane	113
Vinyl Acetate	103
1,1-Dichloroethane	110
2-Butanone (Methyl Ethyl Ketone)	117
cis-1,2-Dichloroethene	102
Tetrahydrofuran	88
Chloroform	107
1,1,1-Trichloroethane	108
Cyclohexane	110
Carbon Tetrachloride	109
2,2,4-Trimethylpentane	96
Benzene	107
1,2-Dichloroethane	107
Heptane	113
Trichloroethene	108
1,2-Dichloropropane	113
1,4-Dioxane	102
Bromodichloromethane	111
cis-1,3-Dichloropropene	106
4-Methyl-2-pentanone	120
Toluene	109
trans-1,3-Dichloropropene	110
1,1,2-Trichloroethane	113
Tetrachloroethene	103

SAMPLE NAME: LCS

ID#: 0406249B-05B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN



Compound	%Recovery
2-Hexanone	119
Dibromochloromethane	111
1,2-Dibromoethane (EDB)	114
Chlorobenzene	106
Ethyl Benzene	107
m,p-Xylene	107
o-Xylene	101
Styrene	112
Bromoform	120
Cumene	70
1,1,2,2-Tetrachloroethane	106
Propylbenzene	78
4-Ethyltoluene	110
1,3,5-Trimethylbenzene	97
1,2,4-Trimethylbenzene	94
1,3-Dichlorobenzene	96
1,4-Dichlorobenzene	96
alpha-Chlorotoluene	115
1,2-Dichlorobenzene	92
1,2,4-Trichlorobenzene	104
Hexachlorobutadiene	100

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	100	70-130	
1,2-Dichloroethane-d4	97	70-130	
4-Bromofluorobenzene	99	70-130	

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CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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180 BLUE RAVINE ROAD, SUITE B

Un elsto cata en c Apa Statut of 411 e 1336 order Wire M 5.0 Kg 5002 Reserve Canister Pressure / Vacuum 24.00 M 31. 55. . :: . : : : : : . E. Specify Turn Around Time: Normal Normal 11/22 □ Rush 28-44 29.5 None initia! 1 sistyous Maked ASTIM-D-194 ĝ Modified TOVE list (di Toric Matto Address 27755 Diehl Kol City (Duren Mestate It Zip 60556 Project # 0/025-08-3/2 CH04 4417 10-4 Q **\$** Project Name Her + L guote CHORATA Diote DYALHAIT Analyses Requested Acc Kaucar Sheak Buck Project info: Diores NO.33 とこれ PO.* Vetraleum list Notee: Motheral Chbrings 95 000 TO THE ROLL OF THE PARTY OF THE · Oxygen arban 42 FAX 630-68-1711 Sign socked By (Signature) Date:Time 11 3thins 411/04 1338 6/11/44.1350 Date & Time 1330 7744 Sold Cehilling 6126 abtkins Phone 630-836-1720 Field Sample I.D. Collected By: Signature | H. f. Reinquished By: (Signalure) Desertions 10.22 Charle Name 1110-23 Contact Person Company. Only : स्य <u>á</u>



AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0406249C

Work Order Summary

CLIENT:

Ms. Robin Schilling

Warrenville, IL 60555

BILL TO: Ms. Robin Schilling

ENSR

27755 Diehl Road

ENSR

27755 Diehl Road

Suite 100

Suite 100

Warrenville, IL 60555

PHONE:

630-836-1700

P.O. #

2017826

FAX:

630-836-1711

PROJECT #

01005-093-360 Hartford

DECEIDT

DATE RECEIVED:

6/14/04

CONTACT: DeDe Dodge

DATE COMPLETED:

6/28/04

			RECEIPT
FRACTION#	NAME	TEST	YAC./PRES.
01A	MP-22 Watkins	Modified TO-15/TICs	5.0 "Hg
02A	MP-23 Watkins	Modified TO-15/TICs	5.0 "Hg
03A	Lab Blank	Modified TO-15/TICs	NA
04A	CCV	Modified TO-15/TICs	NA

CERTIFIED BY:

Sinda d. Fruman

06/28/04 DATE:

Laboratory Director

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

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LABORATORY NARRATIVE Ozone Precursors by Modified TO-15 ENSR

Workorder# 0406249C

Two 6 Liter Summa Canister samples were received on June 14, 2004. The laboratory performed analysis for Ozone Precursors via Modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	TO-15	ATL Modifications
BFB acceptance criteria	CLP protocol	SW-846 protocol
IS Recoveries	60- 140% of mean over ICAL for blanks, and w/in 60- 140% of daily CCV for samples.	Within 60-140% of CCV recoveries for blank and samples.
Dilutions for initial calibration	Dynamic dilutions or static using canisters	Syringe dilutions
Daily CCV	70 - 130 %	60-140% for 90% of the target compounds
Concentration of IS spike	10 ppbv	25 ppbv
Concentration of IS spike	10 ppbv	25 ppbv

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The reported CCV for each daily batch may be derived from more than one individual analytical file due to the client's request for non-standard compounds.

Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction no performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates

as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

SAMPLE NAME: MP-22 Watkins

ID#: 0406249C-01A

alisus Vivida	12032703 24107003		Direction of the control of the cont	2303 0 2825 19303 0 2825
Compound	Røt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	54000	150000	170000	480000
Ethyl Benzene	54000	Not Detected	240000	Not Detected
Styrene	54000	Not Detected	230000	Not Detected
Foluene	54000	Not Detected	200000	Not Detected
1,2,4-Trimethylbenzene	54000	Not Detected	270000	Not Detected
1,3,5-Trimethylbenzene	54000	Not Detected	270000	Not Detected
n,p-Xylene	54000	Not Detected	240000	Not Detected
o-Xylene	54000	Not Detected	240000	Not Detected
Butane	210000	5100000	520000	12000000
1-Butene	210000	Not Detected	500000	Not Detected
cis-2-Butene	210000	Not Detected	500000	Not Detected
rans-2-butene	210000	410000	500000	970000
Cyclohexane	210000	250000	750000	880000
Cyclopentane	210000	340000	620000	990000
2,2-Dimethylbutane	210000	260000	770000	940000
2,3-Dimethylbutane	210000	650000	770000	2300000
2,3-Dimethylpentane	210000	330000	890000	1400000
2,4-Dimethylpentane	210000	250000	890000	1000000
Heptane	210000	280000	890000	1100000
Hexane	210000	1400000	770000	5200000
Isoprene	210000	Not Detected	610000	Not Detected
Cumene	210000	Not Detected	1100000	Not Detected
Isopentane	210000	9400000	640000	28000000
Methylcyclohexane	210000	Not Detected	870000	Not Detected
Methylcyclopentane	210000	780000	750000	2700000
2-Methylheptane	210000	Not Detected	1000000	Not Detected
3-Methylheptane	210000	Not Detected	1000000	Not Detected
2-Methylhexane	210000	410000	890000	1700000
3-Methylhexane	210000	460000	890000	1900000
2-Methylpentane	210000	2300000	770000	8200000
3-Methylpentane	210000	1400000	770000	5000000
Isobutane	210000	1600000	520000	3900000
Nonane	210000	Not Detected	1100000	Not Detected
Octane	210000	Not Detected	1000000	Not Detected
Pentane	210000	5100000	640000	15000000
1-Pentene	210000	Not Detected	620000	Not Detected
cis-2-Pentene	210000	Not Detected	620000	Not Detected
trans-2-Pentene	210000	460000	620000	1300000
Propylbenzene	210000	Not Detected	1100000	Not Detected
2,2,4-Trimethylpentane	210000	300000	1000000	1400000
2,3,4-Trimethylpentane	210000	Not Detected	1000000	Not Detected
1-Hexene	210000	Not Detected	750000	Not Detected

SAMPLE NAME: MP-22 Watkins

1D#: 0406249C-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

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alexitanos Of alabor	3505270 (1070)		Dipoléo na-de de Dipoléo na-de de	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
3-Ethyltoluene	210000	Not Detected	1100000	Not Detected
4-Ethyltoluene	210000	Not Detected	1100000	Not Detected
2-Ethyltoluene	210000	Not Detected	1100000	Not Detected
Decane	210000	Not Detected	1300000	Not Detected
1,2,3-Trimethylbenzene	210000	Not Detected	1100000	Not Detected
1,3-Diethylbenzene	210000	Not Detected	1200000	Not Detected
1,4-Diethylbenzene	210000	Not Detected	1200000	Not Detected
Undecane	210000	Not Detected	1400000	Not Detected
cis-2-Hexene	540000	Not Detected	1900000	Not Detected
trans-2-Hexene	540000	Not Detected	1900000	Not Detected
alpha-Pinene	540000	Not Detected	3000000	Not Detected
beta-Pinene	540000	Not Detected	3000000	Not Detected
Cyclopentene	210000	Not Detected	610000	Not Detected
1-Undecene	540000	Not Detected	3400000	Not Detected
1-Decene	540000	Not Detected	3100000	Not Detected
1-Nonene	210000	Not Detected	1100000	Not Detected
1-Octene	210000	Not Detected	1000000	Not Detected
1-Heptene	210000	Not Detected	870000	Not Detected
1,3-Butadiene	54000	Not Detected	120000	Not Detected
	TENTATIVELY IDE	NTIFIED COMPOUNDS		
Compound		CAS Number	Match Quality	Amount ppbv
Dodecane		112-40-3	NA	Not Detected
1-Dodecene		112-41-4	NA	Not Detected
Tridecane		629-50-5	NA	Not Detected
Container Type: 6 Liter Summa	Canister			
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		115		70-130
Toluene-d8		99		70-130
4-Bromofluorobenzene		102		70-130

SAMPLE NAME: MP-23 Watkins

ID#: 0406249C-02A

		A Theat	and some and	
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Benzene	45000	Not Detected	140000	Not Detected
Ethyl Benzene	45000	Not Detected	200000	Not Detected
Styrene	45000	Not Detected	190000	Not Detected
Toluene	45000	Not Detected	170000	Not Detected
1,2,4-Trimethylbenzene	45000	Not Detected	220000	Not Detected
1,3,5-Trimethylbenzene	45000	Not Detected	220000	Not Detected
n,p-Xylene	45000	Not Detected	200000	Not Detected
o-Xylene	45000	Not Detected	200000	Not Detected
Butane	180000	4200000	430000	10000000
I-Butene	180000	Not Detected	420000	Not Detected
cis-2-Butene	180000	Not Detected	420000	Not Detected
rans-2-butene	180000	330000	420000	770000
Cyclohexane	180000	Not Detected	620000	Not Detected
Cyclopentane	180000	230000	520000	670000
2,2-Dimethylbutane	180000	200000	640000	730000
2,3-Dimethylbutane	180000	460000	640000	1600000
2,3-Dimethylpentane	180000	200000	740000	850000
2,4-Dimethylpentane	180000	Not Detected	740000	Not Detected
Heptane	180000	Not Detected	740000	Not Detected
Hexane	180000	920000	640000	3300000
Isoprene	180000	Not Detected	510000	Not Detected
Cumene	180000	Not Detected	890000	Not Detected
Isopentane	180000	6900000	540000	21000000
Methylcyclohexane	180000	Not Detected	730000	Not Detected
Methylcyclopentane	180000	500000	620000	1700000
2-Methylheptane	180000	Not Detected	850000	Not Detected
3-Methylheptane	180000	Not Detected	850000	Not Detected
2-Methylhexane	180000	260000	740000	1100000
3-Methylhexane	180000	310000	740000	1300000
2-Methylpentane	180000	1600000	640000	5900000
3-Methylpentane	180000	1000000	640000	3700000
Isobutane	180000	1700000	430000	4000000
Nonane	180000	Not Detected	950000	Not Detected
Octane	180000	Not Detected	850000	Not Detected
Pentane	180000	3400000	540000	10000000
1-Pentene	180000	Not Detected	520000	Not Detected
cis-2-Pentene	180000	Not Detected	520000	Not Detected
trans-2-Pentene	180000	290000	520000	860000
Propylbenzene	180000	Not Detected	890000	Not Detected
2,2,4-Trimethylpentane	180000	190000	850000	900000
	180000	Not Detected	850000	Not Detected
2,3,4-Trimethylpentane				

SAMPLE NAME: MP-23 Watkins

ID#: 0406249C-02A

FRONOLS OF FIGURE	EDIEPAC: SEPACIO	a contrator which	ម៉ោកមិនជាមិននាន់ ល្អកំនុសស្រុកស្រី	
Compound	Rot. Limit	Amount	Rpt. Limit	Amount (uG/m3)
Compound	(ppbv)	(ppbv)	(uG/m3)	
3-Ethyltoluene	180000	Not Detected	890000	Not Detected
1-Ethyltoluene	180000	Not Detected	890000	Not Detected
2-Ethyltoluene	180000	Not Detected	890000	Not Detected
Decane	180000	Not Detected	1000000	Not Detected
1,2,3-Trimethylbenzene	180000	Not Detected	890000	Not Detected
1,3-Diethylbenzene	180000	Not Detected	1000000	Not Detected
1,4-Diethylbenzene	180000	Not Detected	100000	Not Detected
Jndecane	180000	Not Detected	1200000	Not Detected
cis-2-Hexene	450000	Not Detected	1600000	Not Detected
rans-2-Hexene	450000	Not Detected	1600000	Not Detected
alpha-Pinene	450000	Not Detected	2500000	Not Detected
oeta-Pinene	450000	Not Detected	2500000	Not Detected
Cyclopentene	180000	Not Detected	510000	Not Detected
1-Undecene	450000	Not Detected	2900000	Not Detected
1-Decene	450000	Not Detected	2600000	Not Detected
1-Nonene	180000	Not Detected	940000	Not Detected
1-Octene	180000	Not Detected	830000	Not Detected
1-Heptene	180000	Not Detected	730000	Not Detected
1,3-Butadiene	45000	Not Detected	100000	Not Detected
	TENTATIVELY IDEN	TIFIED COMPOUNDS	5	
Compound		CAS Number	Match Quality	Amount ppbv
Dodecane	· · · · · · · · · · · · · · · · · · ·	112-40-3	NA NA	Not Detected
1-Dodecene		112-41-4	NA NA	Not Detected
Tridecane		629-50-5	NA NA	Not Detected
		020-00-0	1971	HOI DEIEGIEU
Container Type: 6 Liter Summa	Canister			Method
Surrogates		%Recovery		Limits
1,2-Dichloroethane-d4		116		70-130
Toluene-d8		101		70-130
4-Bromofluorobenzene		101		70-130

SAMPLE NAME: Lab Blank

ID#: 0406249C-03A

Function Principal	(2003/15)		dunukan delam Yaliya andali	97 3 23+
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.50	Not Detected	1.6	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.2	Not Detected
Foluene	0.50	Not Detected	1.9	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Butane	2.0	Not Detected	4.8	Not Detected
1-Butene	2.0	Not Detected	4.7	Not Detected
cis-2-Butene	2.0	Not Detected	4.7	Not Detected
trans-2-butene	2.0	Not Detected	4.7	Not Detected
Cyclohexane	2.0	Not Detected	7.0	Not Detected
Cyclopentane	2.0	Not Detected	5.8	Not Detected
2,2-Dimethylbutane	2.0	Not Detected	7.2	Not Detected
2,3-Dimethylbutane	2.0	Not Detected	7.2	Not Detected
2,3-Dimethylpentane	2.0	Not Detected	8.3	Not Detected
2,4-Dimethylpentane	2.0	Not Detected	8.3	Not Detected
Heptane	2.0	Not Detected	8.3	Not Detected
Hexane	2.0	Not Detected	7.2	Not Detected
Isoprene	2.0	Not Detected	5.7	Not Detected
Cumene	2.0	Not Detected	10	Not Detected
Isopentane	2.0	Not Detected	6.0	Not Detected
Methylcyclohexane	2.0	Not Detected	8.2	Not Detected
Methylcyclopentane	2.0	Not Detected	7.0	Not Detected
2-Methylheptane	2.0	Not Detected	9.5	Not Detected
3-Methylheptane	2.0	Not Detected	9.5	Not Detected
2-Methylhexane	2.0	Not Detected	8.3	Not Detected
3-Methylhexane	2.0	Not Detected	8.3	Not Detected
2-Methylpentane	2.0	Not Detected	7.2	Not Detected
3-Methylpentane	2.0	Not Detected	7.2	Not Detected
Isobutane	2.0	Not Detected	4.8	Not Detected
Nonane	2.0	Not Detected	11	Not Detected
Octane	2.0	Not Detected	9.5	Not Detected
Pentane	2.0	Not Detected	6.0	Not Detected
1-Pentene	2.0	Not Detected	5.8	Not Detected
cis-2-Pentene	2.0	Not Detected	5.8	Not Detected
trans-2-Pentene	2.0	Not Detected	5.8	Not Detected
Propylbenzene	2.0	Not Detected	10	Not Detected
2,2,4-Trimethylpentane	2.0	Not Detected	9.5	Not Detected
2,3,4-Trimethylpentane	2.0	Not Detected	9.5	Not Detected
1-Hexene	2.0	Not Detected	7.0	Not Detected

SAMPLE NAME: Lab Blank ID#: 0406249C-03A

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		6	Division es la como de la como de La como de la como de	320 sayat
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
3-Ethyltoluene	2.0	Not Detected	10	Not Detected
l-Ethyltoluene	2.0	Not Detected	10	Not Detected
?-Ethyltoluene	2.0	Not Detected	10	Not Detected
Decane	2.0	Not Detected	12	Not Detected
1,2,3-Trimethylbenzene	2.0	Not Detected	10	Not Detected
I,3-Diethylbenzene	2.0	Not Detected	11	Not Detected
I,4-Diethylbenzene	2.0	Not Detected	11	Not Detected
Jndecane	2.0	Not Detected	13	Not Detected
cis-2-Hexene	5.0	Not Detected	17	Not Detected
rans-2-Hexene	5.0	Not Detected	17	Not Detected
alpha-Pinene	5.0	Not Detected	28	Not Detected
peta-Pinene	5.0	Not Detected	28	Not Detected
Cyclopentene	2.0	Not Detected	5.7	Not Detected
1-Undecene	5.0	Not Detected	32	Not Detected
1-Decene	5.0	Not Detected	29	Not Detected
1-Nonene	2.0	Not Detected	10	Not Detected
1-Octene	2.0	Not Detected	9.3	Not Detected
1-Heptene	2.0	Not Detected	8.2	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
	TENTATIVELY IDEN	TIFIED COMPOUNDS		
				Amount
Compound		CAS Number	Match Quality	ppbv
Dodecane		112-40-3	NA	Not Detected
1-Dodecene		112-41-4	NA	Not Detected
Tridecane		629-50-5	NA	Not Detected
Container Type: NA - Not Applicable				88 - ALI
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		115		70-130
Toluene-d8		101		70-130
4-Bromofluorobenzene		100		70-130

SAMPLE NAME: CCV

ID#: 0406249C-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

功的数

Compound %Recovery 95 Benzene Ethyl Benzene 98 99 Styrene 96 Toluene 105 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene 105 m,p-Xylene 97 o-Xylene 97 Butane 101 1-Butene 92 103 cis-2-Butene 106 trans-2-butene 99 Cyclohexane 96 Cyclopentane 100 2,2-Dimethylbutane 95 2,3-Dimethylbutane 100 2,3-Dimethylpentane 2,4-Dimethylpentane 100 96 Heptane 90 Hexane Isoprene 103 Cumene 106 99 Isopentane Methylcyclohexane 99 Methylcyclopentane 92 95 2-Methylheptane 97 3-Methylheptane 2-Methylhexane 99 98 3-Methylhexane 91 2-Methylpentane 91 3-Methylpentane 108 Isobutane 97 Nonane Octane 93 96 Pentane 101 1-Pentene cis-2-Pentene 100 trans-2-Pentene 101 Propylbenzene 115 2,2,4-Trimethylpentane 96 95 2,3,4-Trimethylpentane 93

1-Hexene

SAMPLE NAME: CCV 1D#: 0406249C-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN



Compound	%Recovery
3-Ethyltoluene	115
4-Ethyltoluene	108
2-Ethyltoluene	110
Decane	97
1,2,3-Trimethylbenzene	109
1,3-Diethylbenzene	105
1,4-Diethylbenzene	105
Undecane	103
cis-2-Hexene	87
trans-2-Hexene	85
alpha-Pinene	88
beta-Pinene	100
Cyclopentene	96
1-Undecene	61
1-Decene	102
1-Nonene	89
1-Octene	92
1-Heptene	91
1,3-Butadiene	95

Container Type: NA - Not Applicable

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	101	70-130



CHAIN-OF-CUSTODY RECORD

handing or shipping of these samples. Relarquishing signature also indicates agreement to hold hamiless, defend, and incernify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, nanding, or shaping of samples. D.D.T. Hotime (80D) 467-4922.

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= -	Pressure Final	£ #			Semple standard of 040	
Turn Around Time:	Canister	5.K			15, 5 Per 1, 155, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	
3 30	-6	Peteloum list (Madified 10 15	Christal list (4x Torre Mather) Christal Short (10-5)	(c)	Cuetody Seals Injerior	
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	Field	MP. 22 Watkins			Short By (Signature) Date 18. Shipper Name Shipper Name It	
Contact Person. Company Address 222 Phone EEC	Lab I.D.	OIA Cak			Refression By (Signature) Date Time Refression By (Signature) Cale Time Lab Use Only	



WORK ORDER #: 0406249D

Work Order Summary

CLIENT:

Ms. Robin Schilling

Warrenville, IL 60555

BILL TO:

Ms. Robin Schilling

ENSR 27755 Diehl Road

Suite 100

ENSR

27755 Diehl Road

Suite 100

Warrenville, IL 60555

PHONE:

630-836-1700

P.O. #

2017826

FAX:

630-836-1711

PROJECT #

01005-093-360 Hartford

RECEIPT VAC/PRES. 5.0 "Hg 5.0 "Hg NA NA

DATE RECEIVED:

6/14/2004

CONTACT:

DeDe Dodge

DATE COMPLETED:

6/28/2004

FRACTION #	<u>NAME</u>	<u>TEST</u>
01A	MP-22 Watkins	Air Toxics Ltd. @ 82
02A	MP-23 Watkins	Air Toxics Ltd. @ 82
03A	Lab Blank	Air Toxics Ltd. @ 82
04A	LCS	Air Toxics Ltd. @ 82

CERTIFIED BY:

Sinda d. Fruman

06/28/04 DATE:

Laboratory Director

Certification numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- Al 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

LABORATORY NARRATIVE

Air Toxics Ltd @ 82 ENSR

Workorder# 0406249D

Two 6 Liter Summa Canister samples were received on June 14, 2004. The laboratory performed analysis for Ethane, Ethene, Acetylene, Propane and Propylene via Air Toxics Limited Method @82. This method describes direct injection of up to 40 mL of sample followed by GC/FID. See the data sheets for the reporting limit for each compound.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

- B Compound present in laboratory blank greater than reporting limit.
- J Estimated value.
- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the detection limit.
- M Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue

SAMPLE NAME: MP-22 Watkins

ID#: 0406249D-01A

AIT TOXICS LTD. @ 82 GC/FID

ial round rougher	Podrikalio se Moseste d		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	
Ethane	80	38000	
Ethene	80	2300	
Acetylene	80	Not Detected	
Propane	80	85000	
Propylene	80	Not Detected	

Container Type: 6 Liter Summa Canister

SAMPLE NAME: MP-23 Watkins

1D#: 0406249D-02A AIT TOXICS LTD. @ 82 GC/FID

REPROSE Secretary	*105:000	Diniikan-10 - 20 iyo bara ya	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	
Ethane	80	37000	
Ethene	80	1800	
Acetylene	80	Not Detected	
Propane	80	120000	
Propylene	80	Not Detected	

Container Type: 6 Liter Summa Canister

SAMPLE NAME: Lab Blank

ID#: 0406249D-03A

AIT TOXICS LTD. @ 82 GC/FID

	200-13		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	
Ethane	50	Not Detected	
Ethene	50	Not Detected	
Acetylene	50	Not Detected	
Propane	50	Not Detected	
Propylene	50	Not Detected	

Container Type: NA - Not Applicable

SAMPLE NAME: LCS

1D#: 0406249D-04A

AIT TOXICS LTD. @ 82 GC/FID



Compound	%Recovery
Ethane	101
Ethene	106
Acetylene	104
Propane	93
Propylene	102

Container Type: NA - Not Applicable



Sample Transportation Notice
Refinquishing signature on this document indicates that sample is being shipped in compliance FOLSOM, CA 95630-4719
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CHAIN-OF-CUSTODY RECORD

Page 1 of L

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Contact Person Company Address 222 Phone 632 Collected By: 59	4 O	#	Resignation of the Indiana B Leab Use Only

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0406249E

Work Order Summary

CLIENT: Ms. Robin Schilling

BILL TO: Ms. Robin Schilling

ENSR

ENSR

27755 Diehl Road

27755 Diehl Road

Suite 100

Suite 100

Warrenville, IL 60555

Warrenville, IL 60555

PHONE:

630-836-1700

P.O. # 2017826

FAX:

630-836-1711

PROJECT # 01005

01005-093-360 Hartford

DATE RECEIVED:
DATE COMPLETED:

6/14/04 6/24/04

CONTACT:

DeDe Dodge

			RECEIPT
FRACTION#	NAME	TEST	YAC./PRES.
01A	MP-22 Watkins	Modified ASTM D-1946	5.0 "Hg
02A	MP-23 Watkins	Modified ASTM D-1946	5.0 "Hg
03A	Lab Blank	Modified ASTM D-1946	NA
04A	LCS	Modified ASTM D-1946	NA

CERTIFIED BY:

Sinda d. Fruman

DATE: 06/24/04

Laboratory Director

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000. (800) 985-5955. FAX (916) 985-1020

LABORATORY NARRATIVE Modified ASTM D-1946 ENSR

Workorder# 0406249E

Two 6 Liter Summa Canister samples were received on June 14, 2004. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample. See the data sheets for the reporting limits for each compound.

Requirement	ASTM D-1946	ATL Modifications
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a >/= 95% accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL (2.0 mL for He and H2) on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 30% RPD for detections > 5 X's the RL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit.

- J Estimated value.
- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the detection limit.
- M Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue

SAMPLE NAME: MP-22 Watkins

ID#: 0406249E-01A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

elenies Organia			
Compound	Rpt. Limit (%)	Amount (%)	
Oxygen	0.16	1.2	
Methane	0.00016	0.67	
Carbon Dioxide	0.016	15	

Container Type: 6 Liter Summa Canister

SAMPLE NAME: MP-23 Watkins

ID#: 0406249E-02A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

S and		1954 × 1156 (15-565).
Compound	Rpt. Limit (%)	· Amount (%)
Oxygen	0.16	1.3
Methane	0.00016	0.49
Carbon Dioxide	0.016	17

Container Type: 6 Liter Summa Canister

SAMPLE NAME: Lab Blank

1D#: 0406249E-03A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

		Tiver Medical (
Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected

Container Type: NA - Not Applicable

SAMPLE NAME: LCS

ID#: 0406249E-04A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946



Compound	%Recovery
Oxygen	92
Methane	100
Carbon Dioxide	100

Container Type: NA - Not Applicable

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AN ENVIRONMENTAL ANALYTICAL LABORATORY CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

with all applicable local. State. Rederal, national, and international laws, regulations and (916) 985-1000 FAX: (916) 985-1020 Relinquishing agnature on this document indicates that wample is being shipped in compliance FOLSOM, CA 95630-4719 handing or shipping of these samples. Relinquishing agreement to hold harmless, defend, and indemnity. Air Toxics Limited against any claim, demand, or action of any ardinances of any kind. Air Toxics Limited assumes no limbility with respect to the collection. king, related to the collection, handling, or ahipping of samples, D.O.T. Hodine (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B

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APPENDIX F

AIR TOXICS LTD LABORATORY REPORT 0406283					
Field Sample ID	Sample Location Description	Type/Container	Laboratory Sample ID	Analysis	Method
061504-130BNE Corner	130 E Watkins. Indoor air sample near NE corner of basement.	Indoor Air/30-minute Summa Canister	0406283A-01A	Benzene	Mod. TO-15
061504-130B-SW Corner	130 E Watkins. Indoor air sample near SW corner of basement.	Indoor Air/30-minute Summa Canister	0406283A-02A	Benzene	Mod. TO-15
061504-130B-	130 E Watkins. Indoor air sample	Indoor Air/ 30-minute	0406283B-03A	Benzene rerun	Mod. TO-15
Inside Basement	adjacent to floor drain in	Summa Canister	0406283C-03A	VOCs	Mod. TO-15
Floor Drain	basement.		0406283D-03A	VOCs	Mod. TO-15
			0406283E-03A	Additional VOCs	@ 82 GC/FID
		L	0406283F-03A	Mod. Natural Gas	ASTM D-1946
061504-130O-	130 E Watkins. Outside of east	Outdoor Air/30-minute	0406283B-04A	Benzene rerun	Mod. TO-15
outside Eastside	side of house	Summa Canister	0406283C-04A	VOCs	Mod. TO-15
			0406283D-04A	VOCs	Mod. TO-15
	1		0406283E-04A	Additional VOCs	@ 82 GC/FID
			0406283F-04A	Mod. Natural Gas	ASTM D-1946

WORK ORDER #: 0406283A

Work Order Summary

CLIENT:

Ms. Robin Schilling

BILL TO:

Ms. Robin Schilling

ENSR

27755 Diehl Road

ENSR

27755 Diehl Road

Suite 100 Warrenville, IL 60555 Suite 100

2017826

Warrenville, IL 60555

PHONE:

630-836-1700

P.O. #

FAX:

630-836-1711

PROJECT #

01005-093-360 Hartford

DATE RECEIVED:

06/16/04

CONTACT:

DeDe Dodge

DATE COMPLETED:

06/28/04

			RECEIPT
FRACTION #	<u>NAME</u>	<u>TEST</u>	VAC./PRES.
01A	061504-130BNE Corner	Modified TO-15	Tedlar Bag
02A	061504-130B-SW Corner	Modified TO-15	Tedlar Bag
03A	Lab Blank	Modified TO-15	NA
04A	CCV	Modified TO-15	NA
05A	LCS	Modified TO-15	NA

	Sinda d. Fruman
CERTIFIED BY:	<u> </u>

DATE: 06/28/04

Laboratory Director

Certification numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE Modified TO-15 ENSR

Workorder# 0406283A

Two 1 Liter Tedlar Bag samples were received on June 16, 2004. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	TO-14A/TO-15	ATL Modifications
BFB acceptance criteria	CLP protocol (TO-15)	SW-846 protocol
Concentration of IS spike	10 ppbv (TO-15)	25 ppbv
Dilutions for initial calibration	Dynamic dilutions or static using canisters	Syringe dilutions
Daily CCV	= 30% Difference</td <td><!--=30%</math--> Difference with two allowed out up to <math><!--=40%</math-->.; flag and narrate outliers</math></td>	=30%</math Difference with two allowed out up to $.; flag and narrate outliers$
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43.	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58.
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Sample Drying System	Nafion Dryer (TO-14A)	Multisorbent
Sample Load Volume	400 mL (TO-14A)	Varied to 0.2 L.
Blank Acceptance Criteria.	< 0.20 ppbv (TO-14A)	< RL
BFB Absolute Abundance Criteria (TO-14A)	Within 10% of that from the previous day.	CCV internal standard area counts are compared to ICAL, corrective action for > 40 % D.
Initial Calibration	= 30 %RSD (TO-14A)</td <td><!--= 30 % RSD with 2 compounds allowed out to </= 40 % RSD.</td--></td>	= 30 % RSD with 2 compounds allowed out to </= 40 % RSD.</td
IS Recoveries	Within 40% of mean over ICAL for blanks, and within 40 % of daily CCV for samples. (TO-15)	Within 40% of CCV recoveries for blank and samples.
Method Detection Limit	Follow 40CFR Pt.136 App. B	The Method Detection Limit study met all relevant requirements in 40CFR Pt. 136, Appendix B (including a statistically calculated MDL that is less than the Reporting Limit) with the exception that for some compounds the level of the analyte in the spiked

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated Peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

SAMPLE NAME: 061504-130BNE Corner

ID#: 0406283A-01A

	30.00			
	€jtj		exting Walter	frag to a fi
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.20	3.1	0.65	10
Container Type: 1 Liter Tedla	ar Bag			
Surrogates		%Recovery		Method Limits
Toluene-d8		93		70-130

SAMPLE NAME: 061504-130B-SW Corner

ID#: 0406283A-02A

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to the state of th	1. 11 (1) (1)				
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
Benzene	0.20	2.9	0.65	9.4	
Container Type: 1 Liter Tedlar Bag					
Surrogates	_	%Recovery		Method Limits	
Toluene-d8		95		70-130	

SAMPLE NAME: Lab Blank

ID#: 0406283A-03A

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edification is	i fall i Santa S		$\frac{ \Phi_{ij}\rangle = \phi_{ij}\rangle^{2} \mathbf{v}_{ij}\rangle = \phi_{ij}\rangle = \phi_{ij}\rangle$	s a signal y .
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.20	Not Detected	0.65	Not Detected
Container Type: NA - Not Applicable				
Surrogates		%Recovery	_	Method Limits
Toluene-d8		100		70-130

SAMPLE NAME: CCV ID#: 0406283A-04A

en est en est	+3681 e-		galante (1800). Galante (1804).
Compound			%Recovery
Benzene			84
Container Type: NA - Not	Applicable		
Surrogates		%Recovery	Method Limits
Toluene-d8		98	70-130

SAMPLE NAME: LCS

ID#: 0406283A-05A

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Compound		%Recovery	
Benzene		92	
Container Type: NA - Not Applicable			
Surrogates	%Recovery	Method Limits	
Toluene-d8	100	70-130	

CHAIN-OF-CUSTODY RECORD

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Page 1 of 1

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LABORATORY NARRATIVE Modified TO-15 ENSR Workorder# 0406283B

Two 6 Liter Summa Canister samples were received on June 16, 2004. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	TO-14A/TO-15	ATL Modifications
BFB acceptance criteria	CLP protocol (TO-15)	SW-846 protocol
Concentration of IS spike	10 ppbv (TO-15)	25 ppbv
Dilutions for initial calibration	Dynamic dilutions or static using canisters	Syringe dilutions
Daily CCV	= 30% Difference</td <td>< = 30% Difference with two allowed out up to $< = 40%$.; flag and narrate outliers</td>	< = 30% Difference with two allowed out up to $< = 40%$.; flag and narrate outliers
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43.	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58.
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Sample Drying System	Nafion Dryer (TO-14A)	Multisorbent
Sample Load Volume	400 mL (TO-14A)	Varied to 0.2 L.
Blank Acceptance Criteria.	< 0.20 ppbv (TO-14A)	< RL
BFB Absolute Abundance Criteria (TO-14A)	Within 10% of that from the previous day.	CCV internal standard area counts are compared to ICAL, corrective action for > 40 % D.
Initial Calibration	= 30 %RSD (TO-14A)</td <td><!--= 30 % RSD with 2 compounds allowed out to </= 40 % RSD.</td--></td>	= 30 % RSD with 2 compounds allowed out to </= 40 % RSD.</td
IS Recoveries	Within 40% of mean over ICAL for blanks, and within 40 % of daily CCV for samples. (TO-15)	Within 40% of CCV recoveries for blank and samples.
Method Detection Limit	Follow 40CFR Pt.136 App. B	The Method Detection Limit study met all relevant requirements in 40CFR Pt. 136, Appendix B (including a statistically calculated MDL that is less than the Reporting Limit) with the exception that for some compounds the level of the analyte in the spiked

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated Peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

SAMPLE NAME: 061504-130B-Inside Basement Floor Drain

ID#: 0406283B-03A

* 11	- 24935 c		antra astrophysics		
4.30.24			1. 1. 4.0 2.1817 (8)		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
Benzene	0.30	3.3	0.97	10	
Container Type: 6 Liter Su	mma Canister				
Surrogates		%Recovery		Method Limits	
Toluene-d8		94		70-130	

SAMPLE NAME: 061504-1300-Outside Eastside

ID#: 0406283B-04A

	303111	May 1	are the energy set		
<u> </u>	<u> </u>	and the second second	Charles and Artist Action	Total Style Style	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
Benzene	0.35	0.57	1.1	1.8	
Container Type: 6 Liter Sum	ma Canister				
Surrogates		%Recovery		Method Limits	
Toluene-d8		94		70-130	

SAMPLE NAME: Lab Blank

ID#: 0406283B-05A

garan da ka	t i				
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
Benzene	0.20	Not Detected	0.65	Not Detected	
Container Type: NA - Not Appl	icable				
Surrogates		%Recovery		Method Limits	
Toluene-d8		100		70-130	

SAMPLE NAME: CCV

ID#: 0406283B-06A

2010		
e Harris		Constitution of the ending
		%Recovery
		88
Applicable		
		Method
	%Recovery	Limits
	100	70-130
		Applicable %Recovery

SAMPLE NAME: LCS

ID#: 0406283B-07A

	# P	the profita	
Compound			%Recovery
Benzene			94
Container Type: NA - No	t Applicable		
			Method
Surrogates	<u>%</u> F	ecovery	Limits
Toluene-d8		99	70-130



Sample Transportation Notice

180 BLUE RAYNE ROAD, SUITE B
Tainquening signature on this document incides that sample is being shaped in compliance FOLSOM, CA 95630-4718
with all applicable local, State, Federal, national, and international laws, regulations and (916) 985-1000 FAX: (916) 985-1020 harmless, debests, and indemnify Air Toxics withtoo against any stain, certains, or estion of any handling or shipping of these samples. Rollinguishing signature also indicates agreement to rold ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, kind, related to the collection, handing, or shipping of samples, Q.C.Y. Hobine (800) 467-4922

Page 1 of _

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Tedex (306) Angula 3027 Huts 1905 Williams Williams	Reinquished By: (Signature) Date/Time	061204 - 13013-519(0mg	6	Lab Field Sample I.D.	Company SMIN COZE Company SMIN COZE Address 2775 DIGM CI Phone 530-836-1240 FA Callected By: Spening
HUHS 425 April April 486	Received By: (Signature) Detailing Received By: (Signature) Detailing	6115/04 1548	12 1 155-118 155-118	Date & Time	2 600 83 W
Town (to) Condition Condition Yes	Notes: Sto 1763 ATT WANTED TOTAL SES COUNTY ATT TOTAL SES COUNTY	Benzon Cally	10 may 1 Called 11 11 11 11 11 11 11 11 11 11 11 11 11	Analyses Requested	State It Zip 60535 Project # 01005-093-
No None 04062834	Short by the ORDERNIA Prist	Grado	-3/	Canister Pressure / Vacuum	Turn Around Time: M.Normal Rush Specify

M. jr.

WORK ORDER #: 0406283C

Work Order Summary

CLIENT:

Ms. Robin Schilling

27755 Diehl Road

Suite 100

ENSR

Warrenville, IL 60555

PHONE:

FAX:

630-836-1700

630-836-1711

DATE RECEIVED:

06/16/04

DATE COMPLETED:

06/28/04

BILL TO: Ms. Robin Schilling

ENSR

27755 Diehl Road

Suite 100

Warrenville, IL 60555

P.O. # 2017826

PROJECT #

01005-093-360 Hartford

CONTACT: DeDe Dodge

			RECEIPT
FRACTION #	<u>NAME</u>	<u>TEST</u>	VAC./PRES.
03A	061504-130B-inside basement floor drain	Modified TO-15	3.0 "Hg
04A	061504-130O-outside Eastside	Modified TO-15	7.0 "Hg
05A	Lab Blank	Modified TO-15	NA
06A	CCV	Modified TO-15	NA
07A	LCS	Modified TO-15	NA

CERTIFIED BY:

Sinda d. Fruman

DATE:

06/28/04

Laboratory Director

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE Modified TO-15 ENSR Workorder# 0406283C

Two 6 Liter Summa Canister samples were received on June 16, 2004. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	TO-14A/TO-15	ATL Modifications
BFB acceptance criteria	CLP protocol (TO-15)	SW-846 protocol
Concentration of IS spike	10 ppbv (TO-15)	25 ppbv
Dilutions for initial calibration	Dynamic dilutions or static using canisters	Syringe dilutions
Daily CCV	= 30% Difference</td <td>< = 30% Difference with two allowed out up to $< = 40%$.; flag and narrate outliers</td>	< = 30% Difference with two allowed out up to $< = 40%$.; flag and narrate outliers
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43.	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58.
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Sample Drying System	Nafion Dryer (TO-14A)	Multisorbent
Sample Load Volume	400 mL (TO-14A)	Varied to 0.2 L.
Blank Acceptance Criteria.	< 0.20 ppbv (TO-14A)	<rl< td=""></rl<>
BFB Absolute Abundance Criteria (TO-14A)	Within 10% of that from the previous day.	CCV internal standard area counts are compared to ICAL, corrective action for > 40 % D.
Initial Calibration	= 30 %RSD (TO-14A)</td <td><= 30 % RSD with 2 compounds allowed out to <= 40 % RSD.</td>	<= 30 % RSD with 2 compounds allowed out to <= 40 % RSD.
IS Recoveries	Within 40% of mean over ICAL for blanks, and within 40 % of daily CCV for samples. (TO-15)	Within 40% of CCV recoveries for blank and samples.
Method Detection Limit	Follow 40CFR Pt.136 App. B	The Method Detection Limit study met all relevant requirements in 40CFR Pt. 136, Appendix B (including a statistically calculated MDL that is less than the Reporting Limit) with the exception that for some compounds the level of the analyte in the spiked

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The daily calibration standard (CCV) analyzed on 06-24-04 did not meet method required acceptance criteria of 70-130% recovery for Chloroethane. Recovery was high and no hits were detected in the associated samples. There was no impact on sample results.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated Peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

SAMPLE NAME: 061504-130B-inside basement floor drain

ID#: 0406283C-03A

	30342			
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	7.4	Not Detected	37	Not Detected
Freon 114	7.4	Not Detected	53	Not Detected
Chloromethane	30	Not Detected	62	Not Detected
Vinyl Chloride	7.4	Not Detected	19	Not Detected
1,3-Butadiene	7.4	Not Detected	17	Not Detected
Bromomethane	7.4	Not Detected	29	Not Detected
Chloroethane	7.4	Not Detected	20	Not Detected
Freon 11	7.4	Not Detected	42	Not Detected
Ethanol	30	3400 E	57	6600 E
Freon 113	7.4	Not Detected	58	Not Detected
1,1-Dichloroethene	7.4	Not Detected	30	Not Detected
Acetone	30	41	72	98
2-Propanol	30	59	74	150
Carbon Disulfide	7.4	Not Detected	24	Not Detected
3-Chloropropene	30	Not Detected	95	Not Detected
Methylene Chloride	7.4	Not Detected	26	Not Detected
Methyl tert-butyl ether	7.4	Not Detected	27	Not Detected
trans-1,2-Dichloroethene	7.4	Not Detected	30	Not Detected
Hexane	7.4	12	27	43
Vinyl Acetate	30	Not Detected	110	Not Detected
1,1-Dichloroethane	7.4	Not Detected	31	Not Detected
2-Butanone (Methyl Ethyl Ketone)	7.4	Not Detected	22	Not Detected
cis-1,2-Dichloroethene	7.4	Not Detected	30	Not Detected
Tetrahydrofuran	7.4	Not Detected	22	Not Detected
Chloroform	7.4	Not Detected	37	Not Detected
1,1,1-Trichloroethane	7.4	Not Detected	41	Not Detected
Cyclohexane	7.4	Not Detected	26	Not Detected
Carbon Tetrachloride	7.4	Not Detected	48	Not Detected
2,2,4-Trimethylpentane	7.4	7.6	35	36
Benzene	7.4	Not Detected	24	Not Detected
1,2-Dichloroethane	7.4	Not Detected	31	Not Detected
Heptane	7.4	Not Detected	31	Not Detected
Trichloroethene	7.4	Not Detected	41	Not Detected
1,2-Dichloropropane	7.4	Not Detected	35	Not Detected
1,4-Dioxane	30	Not Detected	110	Not Detected
Bromodichloromethane	7.4	Not Detected	51	Not Detected
cis-1,3-Dichloropropene	7.4	Not Detected	34	Not Detected
4-Methyl-2-pentanone	7.4	Not Detected	31	Not Detected
Toluene	7.4	Not Detected	28	Not Detected
trans-1,3-Dichloropropene	7.4	Not Detected	34	Not Detected
1,1,2-Trichloroethane	7.4	Not Detected	41	Not Detected
Tetrachloroethene	7.4	Not Detected	51	Not Detected

SAMPLE NAME: 061504-130B-inside basement floor drain

ID#: 0406283C-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

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	j. j.			
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Hexanone	30	Not Detected	120	Not Detected
Dibromochloromethane	7.4	Not Detected	64	Not Detected
1,2-Dibromoethane (EDB)	7.4	Not Detected	58	Not Detected
Chlorobenzene	7.4	Not Detected	35	Not Detected
Ethyl Benzene	7.4	Not Detected	33	Not Detected
m,p-Xylene	7.4	Not Detected	33	Not Detected
o-Xylene	7.4	Not Detected	33	Not Detected
Styrene	7.4	Not Detected	32	Not Detected
Bromoform	7.4	Not Detected	78	Not Detected
Cumene	7.4	Not Detected	37	Not Detected
1,1,2,2-Tetrachloroethane	7.4	Not Detected	52	Not Detected
Propylbenzene	7.4	Not Detected	37	Not Detected
4-Ethyltoluene	7.4	Not Detected	37	Not Detected
1,3,5-Trimethylbenzene	7.4	Not Detected	37	Not Detected
1,2,4-Trimethylbenzene	7.4	Not Detected	37	Not Detected
1,3-Dichlorobenzene	7.4	Not Detected	46	Not Detected
1,4-Dichlorobenzene	7.4	Not Detected	46	Not Detected
alpha-Chlorotoluene	7.4	Not Detected	39	Not Detected
1,2-Dichlorobenzene	7.4	Not Detected	46	Not Detected
1,2,4-Trichlorobenzene	30	Not Detected	220	Not Detected
Hexachlorobutadiene	30	Not Detected	320	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister

•		Method
Surrogates	%Recovery	Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	112	70-130
4-Bromofluorobenzene	103	70-130

SAMPLE NAME: 061504-130O-outside Eastside

ID#: 0406283C-04A

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garaga (m. 1907). 18 maa - Albanda Marina, marina kanada (m. 1808).				
Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.88	Not Detected	4.4	Not Detected
Freon 114	0.88	Not Detected	6.2	Not Detected
Chloromethane	3.5	Not Detected	7.3	Not Detected
Vinyl Chloride	0.88	Not Detected	2.3	Not Detected
1,3-Butadiene	0.88	Not Detected	2.0	Not Detected
Bromomethane	0.88	Not Detected	3.4	Not Detected
Chloroethane	0.88	Not Detected	2.3	Not Detected
Freon 11	0.88	Not Detected	5.0	Not Detected
Ethanol	3.5	4.0	6.7	7.6
Freon 113	0.88	Not Detected	6.8	Not Detected
1,1-Dichloroethene	0.88	Not Detected	3.5	Not Detected
Acetone	3.5	Not Detected	8.4	Not Detected
2-Propanol	3.5	Not Detected	8.7	Not Detected
Carbon Disulfide	0.88	Not Detected	2.8	Not Detected
3-Chloropropene	3.5	Not Detected	11	Not Detected
Methylene Chloride	0.88	Not Detected	3.1	Not Detected
Methyl tert-butyl ether	0.88	Not Detected	3.2	Not Detected
trans-1,2-Dichloroethene	0.88	Not Detected	3.5	Not Detected
Hexane	0.88	Not Detected	3.1	Not Detected
Vinyl Acetate	3.5	Not Detected	12	Not Detected
1,1-Dichloroethane	0.88	Not Detected	3.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.88	Not Detected	2.6	Not Detected
cis-1,2-Dichloroethene	0.88	Not Detected	3.5	Not Detected
Tetrahydrofuran	0.88	Not Detected	2.6	Not Detected
Chloroform	88.0	Not Detected	4.3	Not Detected
1,1,1-Trichloroethane	0.88	Not Detected	4.8	Not Detected
Cyclohexane	0.88	Not Detected	3.1	Not Detected
Carbon Tetrachloride	0.88	Not Detected	5.6	Not Detected
2,2,4-Trimethylpentane	0.88	Not Detected	4.2	Not Detected
Benzene	0.88	Not Detected	2.8	Not Detected
1,2-Dichloroethane	0.88	Not Detected	3.6	Not Detected
Heptane	0.88	Not Detected	3.6	Not Detected
Trichloroethene	0.88	Not Detected	4.8	Not Detected
1,2-Dichloropropane	0.88	Not Detected	4.1	Not Detected
1,4-Dioxane	3.5	Not Detected	13	Not Detected
Bromodichloromethane	0.88	Not Detected	6.0	Not Detected
cis-1,3-Dichloropropene	0.88	Not Detected	4.0	Not Detected
4-Methyl-2-pentanone	0.88	Not Detected	3.6	Not Detected
Toluene	0.88	Not Detected	3.4	Not Detected
trans-1,3-Dichloropropene	0.88	Not Detected	4.0	Not Detected
1,1,2-Trichloroethane	0.88	Not Detected	4.8	Not Detected
Tetrachloroethene	0.88	3.2	6.0	22

SAMPLE NAME: 061504-130O-outside Eastside

ID#: 0406283C-04A

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	i 				
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
2-Hexanone	3.5	Not Detected	14	Not Detected	
Dibromochloromethane	0.88	Not Detected	7.6	Not Detected	
1,2-Dibromoethane (EDB)	0.88	Not Detected	6.8	Not Detected	
Chlorobenzene	0.88	Not Detected	4.1	Not Detected	
Ethyl Benzene	0.88	Not Detected	3.9	Not Detected	
m,p-Xylene	0.88	Not Detected	3.9	Not Detected	
o-Xylene	0.88	Not Detected	3.9	Not Detected	
Styrene	0.88	Not Detected	3.8	Not Detected	
Bromoform	0.88	Not Detected	9.2	Not Detected	
Cumene	0.88	Not Detected	4.4	Not Detected	
1,1,2,2-Tetrachloroethane	0.88	Not Detected	6.1	Not Detected	
Propylbenzene	0.88	Not Detected	4.4	Not Detected	
4-Ethyltoluene	0.88	Not Detected	4.4	Not Detected	
1,3,5-Trimethylbenzene	0.88	Not Detected	4.4	Not Detected	
1,2,4-Trimethylbenzene	0.88	Not Detected	4.4	Not Detected	
1,3-Dichlorobenzene	0.88	Not Detected	5.3	Not Detected	
1,4-Dichlorobenzene	0.88	Not Detected	5.3	Not Detected	
alpha-Chlorotoluene	0.88	Not Detected	4.6	Not Detected	
1,2-Dichlorobenzene	0.88	Not Detected	5.3	Not Detected	
1,2,4-Trichlorobenzene	3.5	Not Detected	26	Not Detected	
Hexachlorobutadiene	3.5	Not Detected	38	Not Detected	

		Method
Surrogates	%Recovery	Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	112	70-130
4-Bromofluorobenzene	102	70-130

SAMPLE NAME: Lab Blank ID#: 0406283C-05A

	2 410 58 / -			
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.6	Not Detected
Chloromethane	2.0	Not Detected	4.2	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	2.0	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.9	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	5.0	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.4	Not Detected
Methylene Chloride	0.50	Not Detected	1.8	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
Vinyl Acetate	2.0	Not Detected	7.2	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.5	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.8	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.2	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.4	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.1	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.3	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.1	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.8	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected

SAMPLE NAME: Lab Blank ID#: 0406283C-05A

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Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Hexanone	2.0	Not Detected	8.3	Not Detected
Dibromochloromethane	0.50	Not Detected	4.3	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.9	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.2	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.5	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.5	Not Detected
Propylbenzene	0.50	Not Detected	2.5	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.5	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	22	Not Detected

		Method
Surrogates	%Recovery	Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	97	70-130

SAMPLE NAME: CCV

1D#: 0406283C-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Shipper.

01 5
%Recovery
107
100
99
109
104
114
132 Q
101
96
101
101
99
98
101
103
96
114
100
103
102
102
106
100
78
100
101
102
102
101
97
101
107
101
97
98
106
105
107
101
103
103
96

SAMPLE NAME: CCV ID#: 0406283C-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Compound %Recovery 99 2-Hexanone 108 Dibromochloromethane 1,2-Dibromoethane (EDB) 103 99

m,p-Xylene	98
o-Xylene	99
Styrene	106
Bromoform	112
Cumene	96
1,1,2,2-Tetrachloroethane	97

99

99

98 96

1,2,4-Trimethylbenzene	97
1,3-Dichlorobenzene	97
1,4-Dichlorobenzene	98
alpha-Chlorotoluene	99
1,2-Dichlorobenzene	94

1,2,4-Trichlorobenzene 94 Hexachlorobutadiene

Q = Exceeds Quality Control limits. Container Type: NA - Not Applicable

Chlorobenzene

Ethyl Benzene

Propylbenzene 4-Ethyltoluene

1,3,5-Trimethylbenzene

		Metnoa
Surrogates	%Recovery	Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	100	70-130

SAMPLE NAME: LCS

ID#: 0406283C-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

No. 6 pt. 100. The control of the co	
Compound	%Recovery
Freon 12	104
Freon 114	101
Chloromethane	108
Vinyl Chloride	107
1,3-Butadiene	108
Bromomethane	115
Chloroethane	137 Q
Freon 11	103
Ethanol	62
Freon 113	103
1,1-Dichloroethene	105
Acetone	111
2-Propanol	113
Carbon Disulfide	113
3-Chloropropene	97
Methylene Chloride	96
Methyl tert-butyl ether	130
trans-1,2-Dichloroethene	109
Hexane	113
Vinyl Acetate	103
1,1-Dichloroethane	110
2-Butanone (Methyl Ethyl Ketone)	117
cis-1,2-Dichloroethene	102
Tetrahydrofuran	88
Chloroform	107
1,1,1-Trichloroethane	108
Cyclohexane	110
Carbon Tetrachloride	109
2,2,4-Trimethylpentane	96
Benzene	107
1,2-Dichloroethane	107
Heptane	113
Trichloroethene	108
1,2-Dichloropropane	113
1,4-Dioxane	102
Bromodichloromethane	111
cis-1,3-Dichloropropene	106
4-Methyl-2-pentanone	120
Toluene	109
trans-1,3-Dichloropropene	110
1,1,2-Trichloroethane	113
T 1 11 11	100

Tetrachloroethene

103

SAMPLE NAME: LCS

ID#: 0406283C-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

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Compound	%Recovery
2-Hexanone	119
Dibromochloromethane	111
1,2-Dibromoethane (EDB)	114
Chlorobenzene	106
Ethyl Benzene	107
m,p-Xylene	107
o-Xylene	101
Styrene	112
Bromoform	120
Cumene	70
1,1,2,2-Tetrachloroethane	106
Propylbenzene	78
4-Ethyltoluene	110
1,3,5-Trimethylbenzene	97
1,2,4-Trimethylbenzene	94
1,3-Dichlorobenzene	96
1,4-Dichlorobenzene	96
alpha-Chlorotoluene	115
1,2-Dichlorobenzene	92
1,2,4-Trichlorobenzene	104
Hexachlorobutadiene	100

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

		Method
Surrogates	%Recovery	Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	99	70-130

(a) AIR TOXICS LTD. AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signalars on this document indicates that sample is being shipped in compliance FOLSOM, CA 95690-4719 with all applicable local. State, Federal, national, and international laws, regular and (916) 965-1000 FAX; (916) 985-1020 ordinances of any bind. Air Toxics Limited assumes no liability with respect to the collection.

handling or shipping of these samples. Rethquishing signature also indicates agreement to hold hermiess, dofend, and indemnity Aer Yoxics Liwited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples, D.O.T. Hotline (300) 467-4922.

180 BLUE RAVINE ROAD, SUITE B

Page to of

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	Phone		FAX		Project Name 1500 4 200	<u>.</u>		<u>.</u>
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AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0406283D

Work Order Summary

CLIENT: Ms. Robin Schilling

ENSR

BILL TO: Ms. Robin Schilling **ENSR**

27755 Diehl Road

27755 Diehl Road

Suite 100 Suite 100 Warrenville, IL 60555

Warrenville, IL 60555

RECEIPT

PHONE: 630-836-1700 P.O. # 2017826

FAX: 630-836-1711 01005-093-360 Hartford PROJECT #

DATE RECEIVED: 6/16/04 CONTACT: DeDe Dodge

DATE COMPLETED: 6/28/04

			ALCEN I
FRACTION#	NAME	TEST	VAC/PRES.
03A	061504-130B-inside basement floor drain	Modified TO-15/TICs	3.0 "Hg
04A	061504-130O-outside Eastside	Modified TO-15/TICs	7.0 "Hg
05A	Lab Blank	Modified TO-15/TICs	NA
06A	CCV	Modified TO-15/TICs	NA
	·		

	Sinda d. Truman	
CERTIFIED BY:	·	

06/28/04 DATE:

Laboratory Director

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE

Ozone Precursors by Modified TO-15 ENSR

Workorder# 0406283D

Two 6 Liter Summa Canister samples were received on June 16, 2004. The laboratory performed analysis for Ozone Precursors via Modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	TO-15	ATL Modifications
BFB acceptance criteria	CLP protocol	SW-846 protocol
IS Recoveries	60- 140% of mean over ICAL for blanks, and w/in 60- 140% of daily CCV for samples.	Within 60-140% of CCV recoveries for blank and samples.
Dilutions for initial calibration	Dynamic dilutions or static using canisters	Syringe dilutions
Daily CCV	70 - 130 %	60-140% for 90% of the target compounds
Concentration of IS spike	10 ppbv	25 ppbv
Concentration of 1S spike	10 ppbv	25 ppbv

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction no performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

SAMPLE NAME: 061504-130B-inside basement floor drain

1D#: 0406283D-03A

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Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	3.7	Not Detected	12	Not Detected
Ethyl Benzene	3.7	Not Detected	16	Not Detected
Styrene	3.7	Not Detected	16	Not Detected
Foluene	3.7	5.4	14	20
I,2,4-Trimethylbenzene	3.7	Not Detected	19	Not Detected
,3,5-Trimethylbenzene	3.7	Not Detected	19	Not Detected
n,p-Xylene	3.7	Not Detected	16	Not Detected
o-Xylene	3.7	Not Detected	16	Not Detected
Butane	15	55	36	130
I-Butene	15	Not Detected	35	Not Detected
cis-2-Butene	15	Not Detected	35	Not Detected
rans-2-butene	15	Not Detected	35	Not Detected
Cyclohexane	15	Not Detected	52	Not Detected
Cyclopentane	15	Not Detected	43	Not Detected
2,2-Dimethylbutane	15	Not Detected	53	Not Detected
2,3-Dimethylbutane	15	16	53	56
2,3-Dimethylpentane	15	Not Detected	62	Not Detected
2,4-Dimethylpentane	15	Not Detected	62	Not Detected
Heptane	15	Not Detected	62	Not Detected
Hexane	15	Not Detected	53	Not Detected
Isoprene	15	18	42	51
Cumene	15	Not Detected	74	Not Detected
Isopentane	15	180	45	560
Methylcyclohexane	15	Not Detected	61	Not Detected
Methylcyclopentane	15	Not Detected	52	Not Detected
2-Methylheptane	15	Not Detected	71	Not Detected
3-Methylheptane	15	Not Detected	71	Not Detected
2-Methylhexane	15	Not Detected	62	Not Detected
3-Methylhexane	15	Not Detected	62	Not Detected
2-Methylpentane	15	42	53	150
3-Methylpentane	15	26	53	94
Isobutane	15	610	36	1500
Nonane	15	Not Detected	79	Not Detected
Octane	15	Not Detected	71	Not Detected
Pentane	15	72	45	220
1-Pentene	15	Not Detected	43	Not Detected
cis-2-Pentene	15	Not Detected	43	Not Detected
trans-2-Pentene	15	Not Detected	43	Not Detected
Propylbenzene	15	Not Detected	74	Not Detected
2,2,4-Trimethylpentane	15	Not Detected	71	Not Detected
2,3,4-Trimethylpentane	15	Not Detected	71	Not Detected
1-Hexene	15	Not Detected	52	Not Detected

SAMPLE NAME: 061504-130B-inside basement floor drain

ID#: 0406283D-03A

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Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
3-Ethyltoluene	15	Not Detected	74	Not Detected
4-Ethyltoluene	15	Not Detected	74	Not Detected
2-Ethyltoluene	15	Not Detected	74	Not Detected
Decane	15	Not Detected	88	Not Detected
1,2,3-Trimethylbenzene	15	Not Detected	74	Not Detected
1,3-Diethylbenzene	15	Not Detected	83	Not Detected
1,4-Diethylbenzene	15	Not Detected	83	Not Detected
Undecane	15	Not Detected	97	Not Detected
cis-2-Hexene	37	Not Detected	130	Not Detected
rans-2-Hexene	37	Not Detected	130	Not Detected
alpha-Pinene	37	Not Detected	210	Not Detected
peta-Pinene	37	Not Detected	210	Not Detected
Cyclopentene	15	Not Detected	42	Not Detected
1-Undecene	37	Not Detected	240	Not Detected
1-Decene	37	Not Detected	220	Not Detected
1-Nonene	15	Not Detected	78	Not Detected
1-Octene	15	Not Detected	70	Not Detected
1-Heptene	15	Not Detected	61	Not Detected
1,3-Butadiene	3.7	Not Detected	8.4	Not Detected
	TENTATIVELY IDEN	ITIFIED COMPOUNDS	3	
				Amount
Compound		CAS Number	Match Quality	ppbv
Dodecane		112-40-3	NA	Not Detected
1-Dodecene		112-41-4	NA	Not Detected
Tridecane		629-50-5	NA	Not Detected
Container Type: 6 Liter Summa C	anister			
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		115		70-130
Toluene-d8		101		70-130
4-Bromofluorobenzene		102		70-130

SAMPLE NAME: 061504-130O-outside Eastside

1D#: 0406283D-04A

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Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.88	Not Detected	2.8	Not Detected
Ethyl Benzene	0.88	Not Detected	3.9	Not Detected
Styrene	0.88	Not Detected	3.8	Not Detected
- Toluene	0.88	Not Detected	3.4	Not Detected
1,2,4-Trimethylbenzene	0.88	Not Detected	4.4	Not Detected
1,3,5-Trimethylbenzene	0.88	Not Detected	4.4	Not Detected
n,p-Xylene	0.88	Not Detected	3.9	Not Detected
-Xylene	0.88	Not Detected	3.9	Not Detected
Butane	3.5	5.0	8.4	12
1-Butene	3.5	Not Detected	8.2	Not Detected
cis-2-Butene	3.5	Not Detected	8.2	Not Detected
rans-2-butene	3.5	Not Detected	8.2	Not Detected
Cyclohexane	3.5	Not Detected	12	Not Detected
Cyclopentane	3.5	Not Detected	10	Not Detected
2,2-Dimethylbutane	3.5	Not Detected	12	Not Detected
2,3-Dimethylbutane	3.5	Not Detected	12	Not Detected
2,3-Dimethylpentane	3.5	Not Detected	14	Not Detected
2,4-Dimethylpentane	3.5	Not Detected	14	Not Detected
Heptane	3.5	Not Detected	14	Not Detected
Hexane	3.5	Not Detected	12	Not Detected
Isoprene	3.5	Not Detected	9.9	Not Detected
Cumene	3.5	Not Detected	17	Not Detected
Isopentane	3.5	5.4	10	16
Methylcyclohexane	3.5	Not Detected	14	Not Detected
Methylcyclopentane	3.5	Not Detected	12	Not Detected
2-Methylheptane	3.5	Not Detected	17	Not Detected
3-Methylheptane	3.5	Not Detected	16	Not Detected
2-Methylhexane	3.5	Not Detected	14	Not Detected
3-Methylhexane	3.5	Not Detected	14	Not Detected
2-Methylpentane	3.5	Not Detected	12	Not Detected
3-Methylpentane	3.5	Not Detected	12	Not Detected
Isobutane	3.5	5.4	8.4	13
Nonane	3.5	Not Detected	19	Not Detected
Octane	3.5	Not Detected	17	Not Detected
Pentane	3.5	Not Detected	10	Not Detected
1-Pentene	3.5	Not Detected	10	Not Detected
cis-2-Pentene	3.5	Not Detected	10	Not Detected
trans-2-Pentene	3.5	Not Detected	10	Not Detected
Propylbenzene	3.5	Not Detected	17	Not Detected
2,2,4-Trimethylpentane	3.5	Not Detected	17	Not Detected
2,3,4-Trimethylpentane	3.5	Not Detected	17	Not Detected
1-Hexene	3.5	Not Detected	12	Not Detected

SAMPLE NAME: 061504-130O-outside Eastside

ID#: 0406283D-04A

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Profile.		Sanda in		92235924030
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
B-Ethyltoluene	3.5	Not Detected	17	Not Detected
I-Ethyltoluene	3.5	Not Detected	17	Not Detected
2-Ethyltoluene	3.5	Not Detected	17	Not Detected
Decane	3.5	Not Detected	21	Not Detected
1,2,3-Trimethylbenzene	3.5	Not Detected	17	Not Detected
I,3-Diethylbenzene	3.5	Not Detected	19	Not Detected
I,4-Diethylbenzene	3.5	Not Detected	20	Not Detected
Jndecane	3.5	Not Detected	23	Not Detected
cis-2-Hexene	8.8	Not Detected	30	Not Detected
rans-2-Hexene	8.8	Not Detected	31	Not Detected
alpha-Pinene	8.8	Not Detected	50	Not Detected
peta-Pinene	8.8	Not Detected	50	Not Detected
Cyclopentene	3.5	Not Detected	9.9	Not Detected
1-Undecene	8.8	Not Detected	56	Not Detected
1-Decene	8.8	Not Detected	51	Not Detected
1-Nonene	3.5	Not Detected	18	Not Detected
1-Octene	3.5	Not Detected	16	Not Detected
1-Heptene	3.5	Not Detected	14	Not Detected
1,3-Butadiene	0.88	Not Detected	2.0	Not Detected
	TENTATIVELY IDEN	TIFIED COMPOUND	s	
Compound		CAS Number	Match Quality	Amount ppbv
Dodecane		112-40-3	NA	Not Detected
1-Dodecene		112-41-4	NA	Not Detected
Tridecane		629-50-5	NA	Not Detected
Container Type: 6 Liter Summa	Canister			<u>.</u>
Surrogates		%Recovery		Method Limits
				=
1.2-Dichloroethane-d4		124		70-130
1,2-Dichloroethane-d4 Toluene-d8		124 101		70-130 70-130

SAMPLE NAME: Lab Blank

1D#: 0406283D-05A

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Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.50	Not Detected	1.6	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.2	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected
n,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Butane	2.0	Not Detected	4.8	Not Detected
1-Butene	2.0	Not Detected	4.7	Not Detected
cis-2-Butene	2.0	Not Detected	4.7	Not Detected
trans-2-butene	2.0	Not Detected	4.7	Not Detected
Cyclohexane	2.0	Not Detected	7.0	Not Detected
Cyclopentane	2.0	Not Detected	5.8	Not Detected
2,2-Dimethylbutane	2.0	Not Detected	7.2	Not Detected
2,3-Dimethylbutane	2.0	Not Detected	7.2	Not Detected
2,3-Dimethylpentane	2.0	Not Detected	8.3	Not Detected
2,4-Dimethylpentane	2.0	Not Detected	8.3	Not Detected
Heptane	2.0	Not Detected	8.3	Not Detected
Hexane	2.0	Not Detected	7.2	Not Detected
Isoprene	2.0	Not Detected	5.7	Not Detected
Cumene	2.0	Not Detected	10	Not Detected
Isopentane	2.0	Not Detected	6.0	Not Detected
Methylcyclohexane	2.0	Not Detected	8.2	Not Detected
Methylcyclopentane	2.0	Not Detected	7.0	Not Detected
2-Methylheptane	2.0	Not Detected	9.5	Not Detected
3-Methylheptane	2.0	Not Detected	9.5	Not Detected
2-Methylhexane	2.0	Not Detected	8.3	Not Detected
3-Methylhexane	2.0	Not Detected	8.3	Not Detected
2-Methylpentane	2.0	Not Detected	7.2	Not Detected
3-Methylpentane	2.0	Not Detected	7.2	Not Detected
Isobutane	2.0	Not Detected	4.8	Not Detected
Nonane	2.0	Not Detected	11	Not Detected
Octane	2.0	Not Detected	9.5	Not Detected
Pentane	2.0	Not Detected	6.0	Not Detected
1-Pentene	2.0	Not Detected	5.8	Not Detected
cis-2-Pentene	2.0	Not Detected	5.8	Not Detected
trans-2-Pentene	2.0	Not Detected	5.8	Not Detected
Propylbenzene	2.0	Not Detected	10	Not Detected
2,2,4-Trimethylpentane	2.0	Not Detected	9.5	Not Detected
2,3,4-Trimethylpentane	2.0	Not Detected	9.5	Not Detected
1-Hexene	2.0	Not Detected	7.0	Not Detected

SAMPLE NAME: Lab Blank ID#: 0406283D-05A

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Compound	Rpt, Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
3-Ethyltoluene	2.0	Not Detected	10	Not Detected
4-Ethyltoluene	2.0	Not Detected	10	Not Detected
2-Ethyltoluene	2.0	Not Detected	10	Not Detected
Decane	2.0	Not Detected	12	Not Detected
1,2,3-Trimethylbenzene	2.0	Not Detected	10	Not Detected
1,3-Diethylbenzene	2.0	Not Detected	11	Not Detected
1,4-Diethylbenzene	2.0	Not Detected	11	Not Detected
Undecane	2.0	Not Detected	13	Not Detected
cis-2-Hexene	5.0	Not Detected	17	Not Detected
trans-2-Hexene	5.0	Not Detected	17	Not Detected
alpha-Pinene	5.0	Not Detected	28	Not Detected
beta-Pinene	5.0	Not Detected	28	Not Detected
Cyclopentene	2.0	Not Detected	5.7	Not Detected
1-Undecene	5.0	Not Detected	32	Not Detected
1-Decene	5.0	Not Detected	29	Not Detected
1-Nonene	2.0	Not Detected	10	Not Detected
1-Octene	2.0	Not Detected	9.3	Not Detected
1-Heptene	2.0	Not Detected	8.2	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
	TENTATIVELY IDEN	ITIFIED COMPOUND	s	
Compound		CAS Number	Match Quality	Amount ppbv
Dodecane		112-40-3	NA	Not Detected
1-Dodecene		112-41-4	NA	Not Detected
Tridecane		629-50-5	NA	Not Detected
Container Type: NA - Not Applicable				
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		115		70-130
Toluene-d8		101		70-130
1 0140110-40		101		, 0-100

ANTOXICS LTD.

MATPLE NAME: CCV

150 - 0406283D-06A

il (Maria

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MODIFIED THOO TO-15 GC/MS FULL SCAN

Olina (Ralinelan)

Did be family to the action

Compound %Recovery 95 Benzene 98 Ethyl Benzene 99 Styrene Toluene 96 105 1,2,4-Trimethylbenzene 105 1,3,5-Trimethylbenzene 97 m,p-Xylene o-Xylene 97 101 **Butane** 92 1-Butene 103 cis-2-Butene 106 trans-2-butene 99 Cyclohexane 96 Cyclopentane 100 2,2-Dimethylbutane 95 2,3-Dimethylbutane 100 2,3-Dimethylpentane 100 2,4-Dimethylpentane 96 Heptane 90 Hexane 103 Isoprene 106 Cumene Isopentane 99 99 Methylcyclohexane Methylcyclopentane 92 95 2-Methylheptane 97 3-Methylheptane 2-Methylhexane 99 98 3-Methylhexane 91 2-Methylpentane 91 3-Methylpentane 108 Isobutane 97 Nonane 93 Octane 96 Pentane 101 1-Pentene cis-2-Pentene 100 trans-2-Pentene 101 Propylbenzene 115 96 2,2,4-Trimethylpentane 95 2,3,4-Trimethylpentane 93 1-Hexene

SAMPLE NAME: CCV

ID#: 0406283D-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

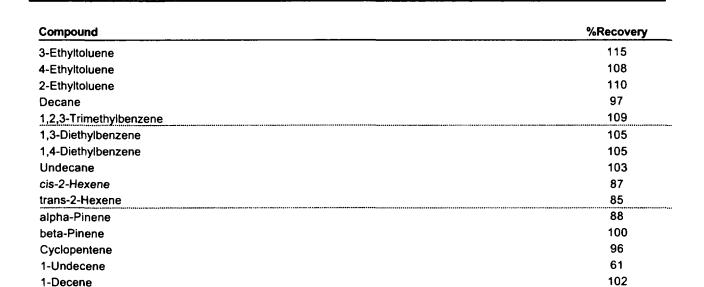
D 7 31 851 35 11

ADMINERS OF THE REAL ASSESSMENT

89

92

91 95



Container Type: NA - Not Applicable

1-Nonene

1-Octene 1-Heptene

1,3-Butadiene

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	101	70-130

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Reinqueshing signature on this cocument indicates that sample is being shipped in complained FOLSOM, CA 95630-4719
with all applicable local, State, Federal, institutional, and international laws, regulations and (916) 965-1000 FAX; (916) 985-1020 handling or sripping of these samples. Relinquishing signature also indicates agreement to hold harmism, dehend, and indemnity Air Toxics Limited against any claim, demand, or action of any long, related to the collection, handling, or shipping of samples, D.O.T. Hotims (800), 467-4922. ordinances of any kind. Air Toxics Literated assumes no liability with respect to the callection,

Contact Person Company Address 2775 2 Address 2775 2 Phone 2675 24-130 Collected By: Signature Collected By: (Signature) Collected By: Signature Collect	Project info: Cold State State	ample I.D. Date & Time Analyses Requested Canister Pressure / Vacuum Inhai Final President Pressure / Vacuum Analyses Requested Inhai Final President Analyses Requested Inhai Final Final President Analyses Requested Inhai Final Final Final President Analyses Requested Inhai Final F	10 13- SWICELLY GYZ PRIBUE CATION	Received By (Bignature) Date-Time Received By (Bignature) Date-Time Received By (Bignature) Date-Time Tooling (Note: Standare) Date-Time Tooling (Note: Standare) Date-Time Tooling (Note: Standare) Date-Time	SCLA 74445 425 And Condition Condition Area no None 04062830
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WORK ORDER #: 0406283E

Work Order Summary

CLIENT:

Ms. Robin Schilling

BILL TO: Ms. Robin Schilling

ENSR

ENSR 27755 Diehl Road

DIVIN

27755 Diehl Road

Suite 100

Suite 100 Warrenville, IL 60555

Suite 100

Warrenville, IL 60555

PHONE:

630-836-1700

P.O. # 2

2017826

FAX:

630-836-1711

PROJECT #

01005-093-360 Hartford

DATE RECEIVED:

06/16/04

CONTACT:

DeDe Dodge

DATE COMPLETED:

06/28/04

RECEIPT FRACTION# **TEST** VAC/PRES. **NAME** 061504-130B-inside basement floor drain 3.0 "Hg 03A Air Toxics Ltd. @ 82 061504-130O-outside Eastside Air Toxics Ltd. @ 82 7.0 "Hg 04A 05A Lab Blank Air Toxics Ltd. @ 82 NA NA Air Toxics Ltd. @ 82 06A LCS

CERTIFIED BY:

Sinda d. Fruman

DATE:

06/28/04

LABORATORY NARRATIVE Air Toxics Ltd @82 ENSR

Workorder# 0406283E

Two 6 Liter Summa Canister samples were received on June 16, 2004. The laboratory performed analysis for Ethane, Ethene, Acetylene, Propane and Propylene via Air Toxics Limited Method @82. This method describes direct injection up to 40 mL of sample followed by GC/FID. See the data sheets for the reporting limit for each compound.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

- B Compound present in laboratory blank greater than reporting limit.
- J Estimated value.
- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the detection limit.
- M Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue

SAMPLE NAME: 061504-130B-inside basement floor drain

ID#: 0406283E-03A AIR TOXICS LTD. @ 82 GC/FID

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14.14, 20.25. Talining to the second of	garan sayay <u>o dangan</u> a sa garan garan sa garan		Exp. Successor Says of Strain of the A			
Compound		Rpt. Limit (ppbv)	Amount (ppbv)			
Ethane		74	Not Detected			
Ethene		74	Not Detected			
Acetylene		74	Not Detected			
Propane		74	320			
Propylene		74	Not Detected			

Container Type: 6 Liter Summa Canister

SAMPLE NAME: 061504-130O-outside Eastside

ID#: 0406283E-04A

AIR TOXICS LTD. @ 82 GC/FID

SPHYTOLI Graphis	713300		namo esperior as adense e esperiore. O altragamo divagale
Compound		Rpt. Limit (ppbv)	Amount (ppbv)
Ethane		88	Not Detected
Ethene		88	Not Detected
Acetylene		88	Not Detected
Propane		88	Not Detected
Propylene		88	Not Detected

Container Type: 6 Liter Summa Canister

SAMPLE NAME: Lab Blank ID#: 0406283E-05A AIR TOXICS LTD. @ 82 GC/FID

# 150°	34.40 · ·					
	en de la companya de La companya de la co		particular section of the section of			
Compound		Rpt. Limit (ppbv)	Amount (ppbv)			
Ethane		50	Not Detected			
Ethene		50	Not Detected			
Acetylene		50	Not Detected			
Propane		50	Not Detected			
Propylene		50	Not Detected			

Container Type: NA - Not Applicable

SAMPLE NAME: LCS ID#: 0406283E-06A AIR TOXICS LTD. @ 82 GC/FID



Compound	%Recovery
Ethane	101
Ethene	106
Acetylene	104
Propane	93
Propylene	102

Container Type: NA - Not Applicable

CHAIN-OF-CUSTODY RECORD M AIR TOXICS LTD.

Sample Transportation Notice

180 BLUE RAVINE ROAD,

Relinquishing agniture on this document indicates that sample is being shapped in compliance FOLSOM, CA 95630-4719 with all applicable local, State, Federa, national, and international laws, regulations and (915) 985-1000 FAX; (916) 985-1020 ordinances of any bind. Air Toxics Limited accurage no liability with respect to the collection, termiess, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any handling or emplong of these samples. Relinquishing signature also adicates agreement to hold

kind, related to the collection, hardling, or shipping of samples. D.C.T. Hotline (800) 457-4922

Page ___ of _____

180 BLUE RAVINE ROAD, SUITE 9

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0406283F

Work Order Summary

CLIENT:

Ms. Robin Schilling

BILL TO: Ms. Robin Schilling

ENSR

Suite 100

27755 Diehl Road

Warrenville, IL 60555

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Warrenville, IL 60555

PHONE:

P.O. #

2017826

FAX:

630-836-1700 630-836-1711

01005-093-360 Hartford

DATE RECEIVED:

6/16/04

PROJECT # CONTACT:

DeDe Dodge

DATE COMPLETED:

6/24/04

RECEIPT FRACTION# NAME **TEST** VAC./PRES. 061504-130B-inside basement floor drain Modified ASTM D-1946 3.0 "Hg 03A 04A 061504-130O-outside Eastside Modified ASTM D-1946 7.0 "Hg 05A Lab Blank Modified ASTM D-1946 NA 06A LCS Modified ASTM D-1946 NA

CER	TIF	IED	BY:
-----	-----	-----	-----

Sinda d. Fruman

06/24/04 DATE:

Laboratory Director

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE Modified ASTM D-1946 ENSR

Workorder# 0406283F

Two 6 Liter Summa Canister samples were received on June 16, 2004. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample. See the data sheets for the reporting limits for each compound.

Requirement	ASTM D-1946	ATL Modifications
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a >/= 95% accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL (2.0 mL for He and H2) on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 30% RPD for detections > 5 X's the RL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

- B Compound present in laboratory blank greater than reporting limit.
- J Estimated value.
- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the detection limit.
- M Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue

SAMPLE NAME: 061504-130B-inside basement floor drain

ID#: 0406283F-03A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

403111

	Rpt. Limit	Amount
Compound	(%)	(%)
Oxygen	0.15	21
Methane	0.00015	0.00031
Carbon Dioxide	0.015	0.13

and a soften and

Container Type: 6 Liter Summa Canister

SAMPLE NAME: 061504-1300-outside Eastside

ID#: 0406283F-04A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

ananga (Andria) Ngjara		Departed in 1909. Departed in 1909 in 1	
Compound	Rpt. Limit (%)	Amount	
Oxygen	0.18	20	
Methane	0.00018	0.00020	
Carbon Dioxide	0.018	0.039	

Container Type: 6 Liter Summa Canister

SAMPLE NAME: Lab Blank

ID#: 0406283F-05A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

	-4,203	and the second s	90、10年2000年 - 東京社会の第二十年20日 - 1
Compound		Rpt. Limit (%)	Amount (%)
Oxygen		0.10	Not Detected
Methane		0.00010	Not Detected
Carbon Dioxide		0.010	Not Detected

Container Type: NA - Not Applicable

SAMPLE NAME: LCS

ID#: 0406283F-06A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946



Compound	%Recovery
Oxygen	92
Methane	100
Carbon Dioxide	100

Container Type: NA - Not Applicable

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing agreement indicates that sample is being shipped in compliance FOLSOM, CA 95630-4719
with all applicable local, State, Federational, and international awa, regulations and (916) 985-1000 FAX; (916) 985-1020 ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection,

handing or ahipping of these samples. Reinquisning signature also indicates agreement to hold hamiless, defend, and indemnity Air Toxics Limited against any cisim, cemano, or action of any long, related to the collection, handling, or shipping of samples, D.O.T. Hothre (BQC) 467-4522.

186 BLUE RAVINE ROAD, SUITE B

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APPENDIX G

Field Sample ID	Sample Location Description	Type/Container	Laboratory Sample ID	Analysis	Method
061604-HCC-MSD	Hartford Community Center. 1st	Indoor Air /Grab Summa	0406315A-01A	Benzene rerun	Mod. TO-15
	floor - Men's bathroom adjacent	Canister	0406315B-01A	VOCs	Mod. TO-15
	to floor drain	1	0406315C-01A	VOCs	Mod. TO-15
	İ		0406315D-01A	Additional VOCs	@ 82 GC/FID
			0406315E-01A	Mod. Natural Gases	ASTM D-1946
061604-HCC-	Outside of Hartford Community	Outdoor Air/ Grab	0406315A-02A	Benzene rerun	Mod. TO-15
Outside	Center Building	Summa Canister	0406315B-02A	VOCs	Mod. TO-15
	_		0406315C-02A	VOCs	Mod. TO-15
	[[0406315D-02A	Additional VOCs	@ 82 GC/FID
			0406315E-02A	Mod. Natural Gases	ASTM D-1946
061604-HCC-CAF-	Hartford Community Center	Indoor Air/Grab Summa	0406315A-03A	Benzene rerun	Mod. TO-15
SE Outlet Void	Cafeteria - below electrical outlet	Canister	0406315B-03A	VOCs	Mod. TO-15
Space	in SE corner; piece of mortar		0406315C-03A	VOCs	Mod. TO-15
	missing, hole present]	0406315D-03A	Additional VOCs	@ 82 GC/FID
			0406315E-03A	Mod. Natural Gases	ASTM D-1946

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0406315A

Work Order Summary

CLIENT:

Ms. Robin Schilling

BILL TO: Ms. Robin Schilling

ENSR

ENSR

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27755 Diehl Road

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Suite 100

Warrenville, IL 60555

PHONE:

630-836-1700

2017826 P.O. #

FAX:

630-836-1711

PROJECT#

01005-093-360 Hartford III. Hartford

DATE RECEIVED:

6/17/04

CONTACT:

DATE COMPLETED:

6/29/04

			RECEIPT
FRACTION#	NAME	TEST	VAC/PRES.
01A	061604-HCC-MSD	Modified TO-15	4.0 "Hg
01AA	061604-HCC-MSD Duplicate	Modified TO-15	4.0 "Hg
02A	061604-HCC-Outside	Modified TO-15	4.5 "Hg
03A	061604-HCC-CAF-SE Outlet Void Space	Modified TO-15	Tedlar Bag
04A	Lab Blank	Modified TO-15	NA
05A	CCV	Modified TO-15	NA
06A	LCS	Modified TO-15	NA

Sinda d. Fruman 06/30/04 DATE: CERTIFIED BY:

Laboratory Director

Certification numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

> 180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE Modified TO-15 ENSR Workorder# 0406315A

Two 6 Liter Summa Canister and one 5 Liter Tedlar Bag samples were received on June 17, 2004. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	TO-14A/TO-15	ATL Modifications
BFB acceptance criteria	CLP protocol (TO-15)	SW-846 protocol
Concentration of IS spike	10 ppbv (TO-15)	25 ppbv
Dilutions for initial calibration	Dynamic dilutions or static using canisters	Syringe dilutions
Daily CCV	= 30% Difference</td <td><!--= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers</td--></td>	= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers</td
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43.	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58.
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Sample Drying System	Nafion Dryer (TO-14A)	Multisorbent
Sample Load Volume	400 mL (TO-14A)	Varied to 0.2 L.
Blank Acceptance Criteria.	< 0.20 ppbv (TO-14A)	< RL
BFB Absolute Abundance Criteria (TO-14A)	Within 10% of that from the previous day.	CCV internal standard area counts are compared to ICAL, corrective action for > 40 % D.
Initial Calibration	= 30 %RSD (TO-14A)</td <td><!--= 30 % RSD with 2 compounds allowed out to </= 40 % RSD.</td--></td>	= 30 % RSD with 2 compounds allowed out to </= 40 % RSD.</td
IS Recoveries	Within 40% of mean over ICAL for blanks, and within 40 % of daily CCV for samples. (TO-15)	Within 40% of CCV recoveries for blank and samples.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated Peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue

SAMPLE NAME: 061604-HCC-MSD

ID#: 0406315A-01A

Albino Di aggi	2019	and the same of th	Gan States on	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.31	17	1.0	55
Container Type: 6 Li	iter Summa Canister			
Surrogates		%Recovery		Method Limits
Toluene-d8		95		70-130

SAMPLE NAME: 061604-HCC-MSD Duplicate

ID#: 0406315A-01AA

abilios Nostas	GDNU)	jo) Didderalderion Pi			
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
Benzene	0.31	17	1.0	54	
Container Type: 6 Liter Su	mma Canister			88-41d	
Surrogates		%Recovery		Method Limits	
Toluene-d8		95		70-130	

SAMPLE NAME: 061604-HCC-Outside

1D#: 0406315A-02A

Fig. 15.	533 (23)			
Compound	Røt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.32	0.53	1.0	1.7
Container Type: 6 Liter Su	mma Canister			
Surrogates		%Recovery		Method Limits
Toluene-d8		95		70-130

SAMPLE NAME: 061604-HCC-CAF-SE Outlet Void Space

ID#: 0406315A-03A

algina Duana	ZDSLAN		originalistik Programiya i	Darogoe'
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.20	7.5	0.65	24
Container Type: 5 Liter Tedlar Bag				Method
Surrogates		%Recovery		Limits
Toluene-d8		102		70-130

SAMPLE NAME: Lab Blank

ID#: 0406315A-04A

Plasti	×3D313		होत्र १७४ होडा स्टाहर		
De Filip	and the said of th	and the same of th	MILITANIE P		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
Benzene	0.20	Not Detected	0.65	Not Detected	
Container Type: NA - Not Appl	icable				
Surrogates		%Recovery		Method Limits	
Toluene-d8		100		70-130	

SAMPLE NAME: CCV ID#: 0406315A-05A

300 (302) 30) and a	interpretation of the property

Compound		%Recovery
Benzene		88
Container Type: NA - Not Applicable		
		Method
Surrogates	%Recovery	Limits
Toluene-d8	100	70-130

SAMPLE NAME: LCS

ID#: 0406315A-06A

aratio		19 (1946) 20 (1957) - 1914 (1957) (1957) (1957) 20 (1957) - 1957
Compound	the sales and the sales are supplied to the sales and the sales are sales and the sales are sales and the sales are	%Recovery
Benzene		94
Container Type: NA - Not Applicable		
		Method
Surrogates	%Recovery	Limits
Toluene-d8	99	70-130



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Rehousing squeetie on this document indicates that sample is being shipped in compliance FOLSOM, CA 95630-4719
with all applicable local. State, Federal, national, and international laws, regulations and (915) 985-1000 FAX. (916) 985-1020 ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection,

180 BLUZ RAVINE ROAD, SUITE B

handing or shipping of these samples. Relinquishing signature also indicates agreement to hold hamilose, defund, and indominity Air Toxats Limited against any claim, demand, or action of any kind, nelated to the collection, handling, or shipping of samples, 0.0.7, Hotline (900), 467–492?

Page Lot __

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0406315B

Work Order Summary

Ms. Robin Schilling Ms. Robin Schilling CLIENT: BILL TO:

> **ENSR ENSR**

27755 Diehl Road 27755 Diehl Road

RECEIPT

Suite 100 Suite 100

Warrenville, IL 60555 Warrenville, IL 60555

630-836-1700 2017826 PHONE: P.O. #

FAX: 630-836-1711 PROJECT # 01005-093-360 Hartford Ill. Hartford

Community Center DeDe Dodge 6/17/04 DATE RECEIVED: CONTACT:

DATE COMPLETED: 6/30/04

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CERTIFIED BY:	Sema a ,	DATE:	06/30/04
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Laboratory Director

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE Modified TO-15 ENSR Workorder# 0406315B

Workdidely 0400313D

Two 6 Liter Summa Canister and one 5 Liter Tedlar Bag samples were received on June 17, 2004. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	TO-14A/TO-15	ATL Modifications
BFB acceptance criteria	CLP protocol (TO-15)	SW-846 protocol
Concentration of IS spike	10 ppbv (TO-15)	25 ppbv
Dilutions for initial calibration	Dynamic dilutions or static using canisters	Syringe dilutions
Daily CCV	= 30% Difference</td <td><!--= 30% Difference with two allowed out up to </=40%.; flag<br-->and narrate outliers</td>	= 30% Difference with two allowed out up to </=40%.; flag<br and narrate outliers
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43.	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58.
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Sample Drying System	Nafion Dryer (TO-14A)	Multisorbent
Sample Load Volume	400 mL (TO-14A)	Varied to 0.2 L.
Blank Acceptance Criteria.	< 0.20 ppbv (TO-14A)	< RL
BFB Absolute Abundance Criteria (TO-14A)	Within 10% of that from the previous day.	CCV internal standard area counts are compared to ICAL, corrective action for > 40 % D.
Initial Calibration	= 30 %RSD (TO-14A)</td <td><!--= 30 % RSD with 2 compounds allowed out to </= 40 % RSD.</td--></td>	= 30 % RSD with 2 compounds allowed out to </= 40 % RSD.</td
IS Recoveries	Within 40% of mean over ICAL for blanks, and within 40 % of daily CCV for samples. (TO-15)	Within 40% of CCV recoveries for blank and samples.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on samples 061604-HCC-MSD and 061604-HCC-CAF-SE Outlet Void Space

due to the presence of high level non-target species.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated Peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

SAMPLE NAME: 061604-HCC-MSD

ID#: 0406315B-01A

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Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	3.1	Not Detected	16	Not Detected
Freon 114	3.1	Not Detected	22	Not Detected
Chloromethane	12	Not Detected	26	Not Detected
Vinyl Chloride	3.1	Not Detected	8.0	Not Detected
1,3-Butadiene	3.1	Not Detected	7.0	Not Detected
Bromomethane	3.1	Not Detected	12	Not Detected
Chloroethane	3.1	Not Detected	8.3	Not Detected
Freon 11	3.1	Not Detected	18	Not Detected
Ethanol	12	98	24	190
Freon 113	3.1	Not Detected	24	Not Detected
1,1-Dichloroethene	3.1	Not Detected	12	Not Detected
Acetone	12	20	30	49
2-Propanol	12	Not Detected	31	Not Detected
Carbon Disulfide	3.1	Not Detected	9.8	Not Detected
3-Chloropropene	12	Not Detected	39	Not Detected
Methylene Chloride	3,1	Not Detected	11	Not Detected
Methyl tert-butyl ether	3.1	Not Detected	11	Not Detected
trans-1,2-Dichloroethene	3.1	Not Detected	12	Not Detected
Hexane	3.1	67	11	240
Vinyl Acetate	12	Not Detected	44	Not Detected
1,1-Dichloroethane	3.1	Not Detected	13	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.1	4.0	9.3	12
cis-1,2-Dichloroethene	3.1	Not Detected	12	Not Detected
Tetrahydrofuran	3.1	Not Detected	9.3	Not Detected
Chloroform	3.1	Not Detected	15	Not Detected
1,1,1-Trichloroethane	3.1	Not Detected	17	Not Detected
Cyclohexane	3.1	37	11	130
Carbon Tetrachloride	3.1	Not Detected	20	Not Detected
2,2,4-Trimethylpentane	3.1	100	15	480
Benzene	3.1	15	10	49
1,2-Dichloroethane	3.1	Not Detected	13	Not Detected
Heptane	3.1	Not Detected	13	Not Detected
Trichloroethene	3.1	Not Detected	17	Not Detected
1,2-Dichloropropane	3.1	Not Detected	14	Not Detected
1,4-Dioxane	12	Not Detected	45	Not Detected
Bromodichloromethane	3.1	Not Detected	21	Not Detected
cis-1,3-Dichloropropene	3.1	Not Detected	14	Not Detected
4-Methyl-2-pentanone	3.1	Not Detected	13	Not Detected
Toluene	3.1	Not Detected	12	Not Detected
trans-1,3-Dichloropropene	3.1	Not Detected	14	Not Detected
1,1,2-Trichloroethane	3.1	Not Detected	17	Not Detected
Tetrachloroethene	3.1	Not Detected	21	Not Detected

SAMPLE NAME: 061604-HCC-MSD

ID#: 0406315B-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

30333

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Hexanone	12	Not Detected	52	Not Detected
Dibromochloromethane	3.1	Not Detected	27	Not Detected
1,2-Dibromoethane (EDB)	3.1	Not Detected	24	Not Detected
Chlorobenzene	3.1	Not Detected	14	Not Detected
Ethyl Benzene	3.1	Not Detected	14	Not Detected
m,p-Xylene	3.1	Not Detected	14	Not Detected
o-Xylene	3.1	Not Detected	14	Not Detected
Styrene	3.1	Not Detected	13	Not Detected
Bromoform	3.1	Not Detected	32	Not Detected
Cumene	3.1	Not Detected	15	Not Detected
1,1,2,2-Tetrachloroethane	3.1	Not Detected	22	Not Detected
Propylbenzene	3.1	Not Detected	15	Not Detected
4-Ethyltoluene	3.1	Not Detected	15	Not Detected
1,3,5-Trimethylbenzene	3.1	Not Detected	15	Not Detected
1,2,4-Trimethylbenzene	3.1	Not Detected	15	Not Detected
1,3-Dichlorobenzene	3.1	Not Detected	19	Not Detected
1,4-Dichlorobenzene	3.1	430	19	2600
alpha-Chlorotoluene	3.1	Not Detected	16	Not Detected
1,2-Dichlorobenzene	3.1	Not Detected	19	Not Detected
1,2,4-Trichlorobenzene	12	Not Detected	94	Not Detected
Hexachlorobutadiene	12	Not Detected	130	Not Detected

Container Type: 6 Liter Summa Canister

		method
Surrogates	%Recovery	Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	101	70-130

SAMPLE NAME: 061604-HCC-Outside

ID#: 0406315B-02A

identinio (1909-19) Districtio		Apara de Bondenco (1936)		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.79	Not Detected	4.0	Not Detected
Freon 114	0.79	Not Detected	5.6	Not Detected
Chloromethane	3.2	Not Detected	6.6	Not Detected
/inyl Chloride	0.79	Not Detected	2.0	Not Detected
1,3-Butadiene	0.79	Not Detected	1.8	Not Detected
Bromomethane	0.79	Not Detected	3.1	Not Detected
Chloroethane	0.79	Not Detected	2.1	Not Detected
Freon 11	0.79	Not Detected	4.5	Not Detected
Ethanol	3.2	Not Detected	6.0	Not Detected
reon 113	0.79	Not Detected	6.2	Not Detected
1,1-Dichloroethene	0.79	Not Detected	3.2	Not Detected
Acetone	3.2	4.0	7.6	9.8
2-Propanol	3.2	Not Detected	7.9	Not Detected
Carbon Disulfide	0.79	Not Detected	2.5	Not Detected
3-Chloropropene	3.2	Not Detected	10	Not Detected
Methylene Chloride	0.79	0.81	2.8	2.8
Methyl tert-butyl ether	0.79	Not Detected	2.9	Not Detected
rans-1.2-Dichloroethene	0.79	Not Detected	3.2	Not Detected
Hexane	0.79	Not Detected	2.8	Not Detected
√inyl Acetate	3.2	Not Detected	11	Not Detected
1,1-Dichloroethane	0.79	Not Detected	3.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.79	Not Detected	2.4	Not Detected
cis-1,2-Dichloroethene	0.79	Not Detected	3.2	Not Detected
Tetrahydrofuran	0.79	Not Detected	2.4	Not Detected
Chloroform	0.79	Not Detected	3.9	Not Detected
	0.79	Not Detected	4.4	Not Detected
1,1,1-Trichloroethane	0.79	Not Detected	2.8	Not Detected
Cyclohexane	0.79	Not Detected	5.0	Not Detected
Carbon Tetrachloride	0.79	Not Detected	3.8	Not Detected
2,2,4-Trimethylpentane	0.79	Not Detected	2.6	Not Detected
Benzene				
1,2-Dichloroethane	0.79	Not Detected	3.2	Not Detected
Heptane	0.79	Not Detected	3.3	Not Detected
Trichloroethene	0.79	Not Detected	4.3	Not Detected
1,2-Dichloropropane	0.79	Not Detected	3.7	Not Detected
1,4-Dioxane	3.2	Not Detected	12	Not Detected
Bromodichloromethane	0.79	Not Detected	5.4	Not Detected
cis-1,3-Dichloropropene	0.79	Not Detected	3.6	Not Detected
4-Methyl-2-pentanone	0.79	Not Detected	3.3	Not Detected
Toluene	0.79	Not Detected	3.0	Not Detected
trans-1,3-Dichloropropene	0.79	Not Detected	3.6	Not Detected
1,1,2-Trichloroethane	0.79	Not Detected	4.4	Not Detected
Tetrachloroethene	0.79	Not Detected	5.4	Not Detected

SAMPLE NAME: 061604-HCC-Outside

ID#: 0406315B-02A

理的対象。 記憶対象 Para Carana Carana Carana Carana	51934541	of the State	1100 12 4000 13 1	BECKE SA
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Hexanone	3.2	Not Detected	13	Not Detected
Dibromochloromethane	0.79	Not Detected	6.8	Not Detected
1,2-Dibromoethane (EDB)	0.79	Not Detected	6.2	Not Detected
Chlorobenzene	0.79	Not Detected	3.7	Not Detected
Ethyl Benzene	0.79	Not Detected	3.5	Not Detected
m,p-Xylene	0.79	Not Detected	3.5	Not Detected
o-Xylene	0.79	Not Detected	3.5	Not Detected
Styrene	0.79	Not Detected	3.4	Not Detected
Bromoform	0.79	Not Detected	8.3	Not Detected
Cumene	0.79	Not Detected	3.9	Not Detected
1,1,2,2-Tetrachloroethane	0.79	Not Detected	5.5	Not Detected
Propylbenzene	0.79	Not Detected	3.9	Not Detected
4-Ethyltoluene	0.79	Not Detected	3.9	Not Detected
1,3,5-Trimethylbenzene	0.79	Not Detected	3.9	Not Detected
1,2,4-Trimethylbenzene	0.79	Not Detected	3.9	Not Detected
1,3-Dichlorobenzene	0.79	Not Detected	4.8	Not Detected
1,4-Dichlorobenzene	0.79	Not Detected	4.8	Not Detected
alpha-Chlorotoluene	0.79	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.79	Not Detected	4.8	Not Detected
1,2,4-Trichlorobenzene	3.2	Not Detected	24	Not Detected
Hexachlorobutadiene	3.2	Not Detected	34	Not Detected

Surrogates	%Recovery	Method Limits
Surrogates	AINECOVERY	Lillius
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	98	70-130

SAMPLE NAME: 061604-HCC-CAF-SE Outlet Void Space

ID#: 0406315B-03A

arautin August	150626			
andre in the second	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Freon 12	29	Not Detected	140	Not Detected
Freon 114	29	Not Detected	200	Not Detected
Chloromethane	120	Not Detected	240	Not Detected
Vinyl Chloride	29	Not Detected	75	Not Detected
1,3-Butadiene	29	Not Detected	65	Not Detected
Bromomethane	29	Not Detected	110	Not Detected
Chloroethane	29	Not Detected	77	Not Detected
Freon 11	29	Not Detected	160	Not Detected
Ethanol	120	Not Detected	220	Not Detected
Freon 113	29	Not Detected	220	Not Detected
1,1-Dichloroethene	29	Not Detected	120	Not Detected
Acetone	120	Not Detected	280	Not Detected
2-Propanol	120	Not Detected	290	Not Detected
Carbon Disulfide	29	Not Detected	91	Not Detected
3-Chloropropene	120	Not Detected	370	Not Detected
Methylene Chloride	29	Not Detected	100	Not Detected
Methyl tert-butyl ether	29	Not Detected	100	Not Detected
trans-1,2-Dichloroethene	29	Not Detected	120	Not Detected
Hexane	29	65	100	230
Vinyl Acetate	120	Not Detected	410	Not Detected
1,1-Dichloroethane	29	Not Detected	120	Not Detected
2-Butanone (Methyl Ethyl Ketone)	29	Not Detected	86	Not Detected
cis-1,2-Dichloroethene	29	Not Detected	120	Not Detected
Tetrahydrofuran	29	Not Detected	86	Not Detected
Chloroform	29	Not Detected	140	Not Detected
1,1,1-Trichloroethane	29	Not Detected	160	Not Detected
Cyclohexane	29	340	100	1200
Carbon Tetrachloride	29	Not Detected	180	Not Detected
2,2,4-Trimethylpentane	29	2200	140	11000
Benzene	29	Not Detected	94	Not Detected
1,2-Dichloroethane	29	Not Detected	120	Not Detected
Heptane	29	Not Detected	120	Not Detected
Trichloroethene	29	Not Detected	160	Not Detected
1,2-Dichloropropane	29	Not Detected	140	Not Detected
1,4-Dioxane	120	Not Detected	420	Not Detected
Bromodichloromethane	29	Not Detected	200	Not Detected
cis-1,3-Dichloropropene	29	Not Detected	130	Not Detected
4-Methyl-2-pentanone	29	Not Detected	120	Not Detected
Toluene	29	Not Detected	110	Not Detected
trans-1,3-Dichloropropene	29	Not Detected	130	Not Detected
	29	Not Detected	160	Not Detected
1,1,2-Trichloroethane				
Tetrachloroethene	29	Not Detected	200	Not Detected

SAMPLE NAME: 061604-HCC-CAF-SE Outlet Void Space

ID#: 0406315B-03A

960 Mg/8 On 1886	11742		dental and the service of the servic	gara Barangan
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Hexanone	120	Not Detected	480	Not Detected
Dibromochloromethane	29	Not Detected	250	Not Detected
1,2-Dibromoethane (EDB)	29	Not Detected	220	Not Detected
Chlorobenzene	29	Not Detected	130	Not Detected
Ethyl Benzene	29	Not Detected	130	Not Detected
m,p-Xylene	29	Not Detected	130	Not Detected
o-Xylene	29	Not Detected	130	Not Detected
Styrene	29	Not Detected	120	Not Detected
Bromoform	29	Not Detected	300	Not Detected
Cumene	29	Not Detected	140	Not Detected
1,1,2,2-Tetrachloroethane	29	Not Detected	200	Not Detected
Propylbenzene	29	Not Detected	140	Not Detected
4-Ethyltoluene	29	Not Detected	140	Not Detected
1,3,5-Trimethylbenzene	29	Not Detected	140	Not Detected
1,2,4-Trimethylbenzene	29	Not Detected	140	Not Detected
1,3-Dichlorobenzene	29	Not Detected	180	Not Detected
1,4-Dichlorobenzene	29	Not Detected	180	Not Detected
alpha-Chlorotoluene	29	Not Detected	150	Not Detected
1,2-Dichlorobenzene	29	Not Detected	180	Not Detected
1,2,4-Trichlorobenzene	120	Not Detected	870	Not Detected
Hexachlorobutadiene	120	Not Detected	1200	Not Detected

		Metriou
Surrogates	%Recovery	Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	112	70-130
4-Bromofluorobenzene	97	70-130

SAMPLE NAME: Lab Blank ID#: 0406315B-04A

aibùidin De gaeir	-703-E 10		and a property of the control of the	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.6	Not Detected
Chloromethane	2.0	Not Detected	4.2	Not Detected
/inyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	2.0	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.9	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	5.0	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.4	Not Detected
Methylene Chloride	0.50	Not Detected	1.8	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
Vinyl Acetate	2.0	Not Detected	7.2	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.5	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.8	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.2	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.4	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.1	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.3	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.1	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.8	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected

SAMPLE NAME: Lab Blank

ID#: 0406315B-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

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Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Hexanone	2.0	Not Detected	8.3	Not Detected
Dibromochloromethane	0.50	Not Detected	4.3	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.9	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.2	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.5	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.5	Not Detected
Propylbenzene	0.50	Not Detected	2.5	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.5	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	22	Not Detected

Container Type: NA - Not Applicable

		Method Limits	
Surrogates	%Recovery		
Toluene-d8	101	70-130	
1,2-Dichloroethane-d4	105	70-130	
4-Bromofluorobenzene	99	70-130	

SAMPLE NAME: CCV

ID#: 0406315B-05A

Compound	%Recovery
Freon 12	78
Freon 114	94
Chloromethane	110
Vinyl Chloride	84
1,3-Butadiene	88
Bromomethane	115
Chloroethane	97
Freon 11	85
Ethanol	105
Freon 113	76
1,1-Dichloroethene	82
Acetone	96
2-Propanol	116
Carbon Disulfide	83
3-Chloropropene	103
Methylene Chloride	102
Methyl tert-butyl ether	82
trans-1,2-Dichloroethene	76
Hexane	87
Vinyl Acetate	104
1,1-Dichloroethane	85
2-Butanone (Methyl Ethyl Ketone)	86
cis-1,2-Dichloroethene	86
Tetrahydrofuran	88
Chloroform	76
1,1,1-Trichloroethane	83
Cyclohexane	79
Carbon Tetrachloride	95
2,2,4-Trimethylpentane	87
Benzene	78
1,2-Dichloroethane	83
Heptane	78
Trichloroethene	76
1,2-Dichloropropane	86
1,4-Dioxane	89
Bromodichloromethane	84
cis-1,3-Dichloropropene	84
4-Methyl-2-pentanone	97
Toluene	77
trans-1,3-Dichloropropene	91
1,1,2-Trichloroethane	79
Tetrachloroethene	75

SAMPLE NAME: CCV

ID#: 0406315B-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN



Dibromochloromethane 89 1,2-Dibromoethane (EDB) 83 Chlorobenzene 78 Ethyl Benzene 77 m,p-Xylene 75 o-Xylene 78 Styrene 81 Bromoform 92 Cumene 80 1,1,2,2-Tetrachloroethane 85 Propylbenzene 85 4-Ethyltoluene 82 1,3,5-Trimethylbenzene 77 1,2,4-Trimethylbenzene 76 1,3-Dichlorobenzene 76 1,4-Dichlorobenzene 77 alpha-Chlorotoluene 88 1,2-Dichlorobenzene 74 1,2,4-Trichlorobenzene 75	Compound	%Recovery
1,2-Dibromoethane (EDB) 83 Chlorobenzene 78 Ethyl Benzene 77 m,p-Xylene 75 o-Xylene 78 Styrene 81 Bromoform 92 Cumene 80 1,1,2,2-Tetrachloroethane 85 Propylbenzene 85 4-Ethyltoluene 82 1,3,5-Trimethylbenzene 77 1,2,4-Trimethylbenzene 80 1,3-Dichlorobenzene 76 1,4-Dichlorobenzene 77 alpha-Chlorotoluene 88 1,2-Dichlorobenzene 74 1,2,4-Trichlorobenzene 75	2-Hexanone	108
Chlorobenzene 78 Ethyl Benzene 77 m,p-Xylene 75 o-Xylene 78 Styrene 81 Bromoform 92 Cumene 80 1,1,2,2-Tetrachloroethane 85 Propylbenzene 85 4-Ethyltoluene 82 1,3,5-Trimethylbenzene 77 1,2,4-Trimethylbenzene 80 1,3-Dichlorobenzene 76 1,4-Dichlorobenzene 77 alpha-Chlorotoluene 88 1,2-Dichlorobenzene 74 1,2-Dichlorobenzene 75	Dibromochloromethane	89
Ethyl Benzene 77 m,p-Xylene 75 o-Xylene 78 Styrene 81 Bromoform 92 Cumene 80 1,1,2,2-Tetrachloroethane 85 Propylbenzene 85 4-Ethyltoluene 82 1,3,5-Trimethylbenzene 77 1,2,4-Trimethylbenzene 80 1,3-Dichlorobenzene 76 1,4-Dichlorobenzene 77 alpha-Chlorotoluene 88 1,2-Dichlorobenzene 74 1,2,4-Trichlorobenzene 75	1,2-Dibromoethane (EDB)	83
m,p-Xylene 75 o-Xylene 78 Styrene 81 Bromoform 92 Cumene 80 1,1,2,2-Tetrachloroethane 85 Propylbenzene 85 4-Ethyltoluene 82 1,3,5-Trimethylbenzene 77 1,2,4-Trimethylbenzene 80 1,3-Dichlorobenzene 76 1,4-Dichlorobenzene 88 1,2-Dichlorobenzene 74 1,2,4-Trichlorobenzene 75	Chlorobenzene	78
o-Xylene 78 Styrene 81 Bromoform 92 Cumene 80 1,1,2,2-Tetrachloroethane 85 Propylbenzene 85 4-Ethyltoluene 82 1,3,5-Trimethylbenzene 77 1,2,4-Trimethylbenzene 80 1,3-Dichlorobenzene 76 1,4-Dichlorobenzene 77 alpha-Chlorotoluene 88 1,2-Dichlorobenzene 74 1,2,4-Trichlorobenzene 75	Ethyl Benzene	77
Styrene 81 Bromoform 92 Cumene 80 1,1,2,2-Tetrachloroethane 85 Propylbenzene 85 4-Ethyltoluene 82 1,3,5-Trimethylbenzene 77 1,2,4-Trimethylbenzene 80 1,3-Dichlorobenzene 76 1,4-Dichlorobenzene 77 alpha-Chlorotoluene 88 1,2-Dichlorobenzene 74 1,2,4-Trichlorobenzene 75	m,p-Xylene	75
Bromoform 92 Cumene 80 1,1,2,2-Tetrachloroethane 85 Propylbenzene 85 4-Ethyltoluene 82 1,3,5-Trimethylbenzene 77 1,2,4-Trimethylbenzene 80 1,3-Dichlorobenzene 76 1,4-Dichlorobenzene 77 alpha-Chlorotoluene 88 1,2-Dichlorobenzene 74 1,2,4-Trichlorobenzene 75	o-Xylene	78
Cumene 80 1,1,2,2-Tetrachloroethane 85 Propylbenzene 85 4-Ethyltoluene 82 1,3,5-Trimethylbenzene 77 1,2,4-Trimethylbenzene 80 1,3-Dichlorobenzene 76 1,4-Dichlorobenzene 77 alpha-Chlorotoluene 88 1,2-Dichlorobenzene 74 1,2,4-Trichlorobenzene 75	Styrene	81
1,1,2,2-Tetrachloroethane 85 Propylbenzene 85 4-Ethyltoluene 82 1,3,5-Trimethylbenzene 77 1,2,4-Trimethylbenzene 80 1,3-Dichlorobenzene 76 1,4-Dichlorobenzene 77 alpha-Chlorotoluene 88 1,2-Dichlorobenzene 74 1,2,4-Trichlorobenzene 75	Bromoform	92
1,1,2,2-Tetrachloroethane 85 Propylbenzene 85 4-Ethyltoluene 82 1,3,5-Trimethylbenzene 77 1,2,4-Trimethylbenzene 80 1,3-Dichlorobenzene 76 1,4-Dichlorobenzene 77 alpha-Chlorotoluene 88 1,2-Dichlorobenzene 74 1,2,4-Trichlorobenzene 75	Cumene	
4-Ethyltoluene 82 1,3,5-Trimethylbenzene 77 1,2,4-Trimethylbenzene 80 1,3-Dichlorobenzene 76 1,4-Dichlorobenzene 77 alpha-Chlorotoluene 88 1,2-Dichlorobenzene 74 1,2,4-Trichlorobenzene 75	1,1,2,2-Tetrachloroethane	
1,3,5-Trimethylbenzene 77 1,2,4-Trimethylbenzene 80 1,3-Dichlorobenzene 76 1,4-Dichlorobenzene 77 alpha-Chlorotoluene 88 1,2-Dichlorobenzene 74 1,2,4-Trichlorobenzene 75	Propylbenzene	85
1,2,4-Trimethylbenzene 80 1,3-Dichlorobenzene 76 1,4-Dichlorobenzene 77 alpha-Chlorotoluene 88 1,2-Dichlorobenzene 74 1,2,4-Trichlorobenzene 75	4-Ethyltoluene	82
1,3-Dichlorobenzene 76 1,4-Dichlorobenzene 77 alpha-Chlorotoluene 88 1,2-Dichlorobenzene 74 1,2,4-Trichlorobenzene 75	1,3,5-Trimethylbenzene	77
1,3-Dichlorobenzene 76 1,4-Dichlorobenzene 77 alpha-Chlorotoluene 88 1,2-Dichlorobenzene 74 1,2,4-Trichlorobenzene 75	1,2,4-Trimethylbenzene	
alpha-Chlorotoluene 88 1,2-Dichlorobenzene 74 1,2,4-Trichlorobenzene 75	1,3-Dichlorobenzene	
1,2-Dichlorobenzene 74 1,2,4-Trichlorobenzene 75	1,4-Dichlorobenzene	77
1,2,4-Trichlorobenzene 75	alpha-Chlorotoluene	88
1121. 11010-10012011	1,2-Dichlorobenzene	74
	1,2,4-Trichlorobenzene	75
	Hexachlorobutadiene	71

Container Type: NA - Not Applicable

		Method
Surrogates	%Recovery	Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	101	70-130

SAMPLE NAME: LCS

ID#: 0406315B-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

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Compound	%Recovery
Freon 12	75
Freon 114	91
Chloromethane	103
Vinyl Chloride	82
1,3-Butadiene	87
Bromomethane	91
Chloroethane	127
Freon 11	81
Ethanol	129
Freon 113	77
1,1-Dichloroethene	80
Acetone	100
2-Propanol	99
Carbon Disulfide	85
3-Chloropropene	90
Methylene Chloride	95
Methyl tert-butyl ether	89
trans-1,2-Dichloroethene	80
Hexane	93
Vinyl Acetate	111
1,1-Dichloroethane	94
2-Butanone (Methyl Ethyl Ketone)	93
cis-1,2-Dichloroethene	76
Tetrahydrofuran	100
Chloroform	82
1,1,1-Trichloroethane	94
Cyclohexane	87
Carbon Tetrachloride	102
2,2,4-Trimethylpentane	80
Benzene	83
1,2-Dichloroethane	95
Heptane	86
Trichloroethene	86
1,2-Dichloropropane	105
1,4-Dioxane	102
Bromodichloromethane	89
cis-1,3-Dichloropropene	101
4-Methyl-2-pentanone	113
Toluene	75
trans-1,3-Dichloropropene	104
1,1,2-Trichloroethane	80
Tetrachloroethene	76

SAMPLE NAME: LCS

ID#: 0406315B-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN



Compound	%Recovery
2-Hexanone	125
Dibromochloromethane	92
1,2-Dibromoethane (EDB)	85
Chlorobenzene	78
Ethyl Benzene	74
m,p-Xylene	73
o-Xylene	78
Styrene	87
Bromoform	90
Cumene	76
1,1,2,2-Tetrachloroethane	87
Propylbenzene	59 Q
4-Ethyltoluene	83
1,3,5-Trimethylbenzene	79
1,2,4-Trimethylbenzene	80
1,3-Dichlorobenzene	77
1,4-Dichlorobenzene	76
alpha-Chlorotoluene	125
1,2-Dichlorobenzene	74
1,2,4-Trichlorobenzene	86
Hexachlorobutadiene	90

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

 Surrogates
 %Recovery
 Method Limits

 Toluene-d8
 102
 70-130

 1,2-Dichloroethane-d4
 108
 70-130

 4-Bromofluorobenzene
 98
 70-130

with all applicable local, State, Federal, national, and international lows, requalities and (916) 985-1000 FAX: (916) 985-1020 Sample Transportation Notice
Reinquishing signature on this document indicates that sample is being shipped in compliance. FOLSOM, CA 95630-4719 handing or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and independry An Toxics Limited against any plant, certaind, or action of any limited against any plant, certaind, or action of any limited to the holding (RO) defended to the certain certain and such actions to the certain certain and such actions and such actions of actions of such actions and such actions are such as a such actions and such actions are such actions as a such actions are such actions and such actions are such actions and such actions are such actions and such actions are such actions are such actions are such actions are such actions and such actions are such actions are such actions and such actions are such actions and such actions are such actions and such actions are such actions are such actions and such actions are such actions and such actions are such actions and such actions are such actions are such actions and such actions are such actions are such actions and such actions are such actions and such actions are such actions and such actions are such actions are such actions are such actions and such actions are such acti ordinarces of any kind. Air Toxes Linted sssumes no lability with respect to the collection,

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0406315C

Work Order Summary

CLIENT:

Ms. Robin Schilling

Warrenville, IL 60555

BILL TO: Ms. Robin Schilling

ENSR

27755 Diehl Road

ENSR

27755 Diehl Road

Suite 100

Suite 100

Warrenville, IL 60555

PHONE:

630-836-1700

2017826 P.O. #

FAX:

630-836-1711

01005-093-360 Hartford III. Hartford

DATE RECEIVED:

06/17/04

PROJECT # CONTACT:

Community Center De Dodge

DATE COMPLETED:

06/30/04

			RECEIPT
FRACTION#	NAME	<u>TEST</u>	VAC/PRES.
01A	061604-HCC-MSD	Modified TO-15/TICs	4.0 "Hg
02A	061604-HCC-Outside	Modified TO-15/TICs	4.5 "Hg
03A	061604-HCC-CAF-SE Outlet Void Space	Modified TO-15/TICs	Tedlar Bag
04A	Lab Blank	Modified TO-15/TICs	NA
05 Δ	CCV	Modified TO-15/TICs	NΔ

CERTIFIED BY:

Laboratory Director

DATE:

06/30/04

LABORATORY NARRATIVE Ozone Precursors by Modified TO-15 ENSR

Workorder# 0406315C

Two 6 Liter Summa Canister and one 5 Liter Tedlar Bag samples were received on June 17, 2004. The laboratory performed analysis for Ozone Precursors via Modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	TO-15	ATL Modifications
BFB acceptance criteria	CLP protocol	SW-846 protocol
IS Recoveries	60- 140% of mean over ICAL for blanks, and w/in 60- 140% of daily CCV for samples.	Within 60-140% of CCV recoveries for blank and samples.
Dilutions for initial calibration	Dynamic dilutions or static using canisters	Syringe dilutions
Daily CCV	70 - 130 %	60-140% for 90% of the target compounds
Concentration of IS spike	10 ppbv	25 ppbv
Concentration of IS spike	10 ppbv	25 ppbv

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The reported CCV for each daily batch may be derived from more than one individual analytical file due to the client's request for non-standard compounds.

Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

Specific analytes that are requested by the client to be reported as tentatively identified compounds (TICs) are determined by searching for each compound's characteristic spectra. If no chromatographic peak displaying the compound specific spectra exists, then the TIC is reported as not detected. Please note that the laboratory has not evaluated the stability of any heretofore tentatively identified compound in the vapor phase or for efficiency of recovery through the analytical system.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction no

performed).

- J Estimated value.
- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the reporting limit.
- N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue

SAMPLE NAME: 061604-HCC-MSD

ID#: 0406315C-01A

all and	100623 132		STANTANTON SERVINGON		
Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
Benzene	31	Not Detected	100	Not Detected	
Ethyl Benzene	31	Not Detected	140	Not Detected	
Styrene	31	Not Detected	130	Not Detected	
Toluene	31	Not Detected	120	Not Detected	
1,2,4-Trimethylbenzene	31	Not Detected	150	Not Detected	
1,3,5-Trimethylbenzene	31	Not Detected	150	Not Detected	
m,p-Xylene	31	Not Detected	140	Not Detected	
o-Xylene	31	Not Detected	140	Not Detected	
Butane	120	2200	300	5300	
1-Butene	120	Not Detected	290	Not Detected	
cis-2-Butene	120	Not Detected	290	Not Detected	
trans-2-butene	120	Not Detected	290	Not Detected	
Cyclohexane	120	Not Detected	430	Not Detected	
Cyclopentane	120	Not Detected	360	Not Detected	
2,2-Dimethylbutane	120	Not Detected	440	Not Detected	
2,3-Dimethylbutane	120	260	440	920	
2,3-Dimethylpentane	120	130	520	550	
2,4-Dimethylpentane	120	Not Detected	520	Not Detected	
Heptane	120	Not Detected	520	Not Detected	
Hexane	120	Not Detected	440	Not Detected	
Isoprene	120	Not Detected	350	Not Detected	
Cumene	120	Not Detected	620	Not Detected	
Isopentane	120	4900	370	15000	
Methylcyclohexane	120	Not Detected	510	Not Detected	
Methylcyclopentane	120	150	430	530	
2-Methylheptane	120	Not Detected	590	Not Detected	
3-Methylheptane	120	Not Detected	590	Not Detected	
2-Methylhexane	120	Not Detected	520	Not Detected	
3-Methylhexane	120	Not Detected	520	Not Detected	
2-Methylpentane	120	520	440	1900	
	120	420	440	1500	
3-Methylpentane	120	1100	300	2600	
Isobutane	120	Not Detected	660	Not Detected	
Nonane		Not Detected	590		
Octane	120 120			Not Detected	
Pentane 1 Pantana	120	970	370	2900	
1-Pentene	120	Not Detected	360	Not Detected	
cis-2-Pentene	120	Not Detected	360	Not Detected	
trans-2-Pentene	120	Not Detected	360	Not Detected	
Propylbenzene	120	Not Detected	620	Not Detected	
2,2,4-Trimethylpentane	120	Not Detected	590	Not Detected	
2,3,4-Trimethylpentane	120	Not Detected	590	Not Detected	
1-Hexene	120	Not Detected	430	Not Detected	

SAMPLE NAME: 061604-HCC-MSD

ID#: 0406315C-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

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Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
3-Ethyltoluene	120	Not Detected	620	Not Detected
1-Ethyltoluene	120	Not Detected	620	Not Detected
2-Ethyltoluene	120	Not Detected	620	Not Detected
Decane	120	Not Detected	730	Not Detected
1,2,3-Trimethylbenzene	120	Not Detected	620	Not Detected
1,3-Diethylbenzene	120	Not Detected	690	Not Detected
1,4-Diethylbenzene	120	Not Detected	690	Not Detected
Undecane	120	Not Detected	800	Not Detected
cis-2-Hexene	310	Not Detected	1100	Not Detected
trans-2-Hexene	310	Not Detected	1100	Not Detected
alpha-Pinene	310	Not Detected	1800	Not Detected
beta-Pinene	310	Not Detected	1800	Not Detected
Cyclopentene	120	Not Detected	350	Not Detected
1-Undecene	310	Not Detected	2000	Not Detected
1-Decene	310	Not Detected	1800	Not Detected
1-Nonene	120	Not Detected	650	Not Detected
1-Octene	120	Not Detected	580	Not Detected
1-Heptene	120	Not Detected	510	Not Detected
1,3-Butadiene	31	Not Detected	70	Not Detected
	TENTATIVELY IDEN	ITIFIED COMPOUNDS		Amount
Compound		CAS Number	Match Quality	ppbv
Dodecane		112-40-3	NA	Not Detected
1-Dodecene		112-41-4	NA	Not Detected
Tridecane		629-50-5	NA	Not Detected
Container Type: 6 Liter Summa	Canister			
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		113		70-130
Toluene-d8		100		70-130
4-Bromofluorobenzene		105		70-130

SAMPLE NAME: 061604-HCC-Outside

ID#: 0406315C-02A

	100 37.1.1	Date of Solling Control of Soling Co		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.79	Not Detected	2.6	Not Detected
Ethyl Benzene	0.79	Not Detected	3.5	Not Detected
Styrene	0.79	Not Detected	3.4	Not Detected
Toluene	0.79	Not Detected	3.0	Not Detected
1,2,4-Trimethylbenzene	0.79	Not Detected	3.9	Not Detected
1,3,5-Trimethylbenzene	0.79	Not Detected	3.9	Not Detected
n,p-Xylene	0.79	Not Detected	3.5	Not Detected
p-Xylene	0.79	Not Detected	3.5	Not Detected
Butane	3.2	5.1	7.6	12
1-Butene	3.2	Not Detected	7.4	Not Detected
cis-2-Butene	3.2	Not Detected	7.4	Not Detected
rans-2-butene	3.2	Not Detected	7.4	Not Detected
Cyclohexane	3.2	Not Detected	11	Not Detected
Cyclopentane	3.2	Not Detected	9.2	Not Detected
2,2-Dimethylbutane	3.2	Not Detected	11	Not Detected
2,3-Dimethylbutane	3.2	Not Detected	11	Not Detected
2,3-Dimethylpentane	3.2	Not Detected	13	Not Detected
2,4-Dimethylpentane	3.2	Not Detected	13	Not Detected
Heptane	3.2	Not Detected	13	Not Detected
Hexane	3.2	Not Detected	11	Not Detected
Isoprene	3.2	Not Detected	8.9	Not Detected
Cumene	3.2	Not Detected	16	Not Detected
Isopentane	3.2	12	9.5	37
Methylcyclohexane	3.2	Not Detected	13	Not Detected
Methylcyclopentane	3.2	Not Detected	11	Not Detected
	3.2	Not Detected	15	Not Detected
2-Methylheptane	3.2	Not Detected	15	Not Detected
3-Methylheptane	3.2	Not Detected	13	Not Detected
2-Methylhexane	3.2	Not Detected	13	Not Detected
3-Methylhexane	3.2	Not Detected	11	Not Detected
2-Methylpentane	3.2	Not Detected	11	Not Detected
3-Methylpentane	3.2	4.0	7.6	9.7
Isobutane	3.2 3.2	Not Detected	7.0 17	Not Detected
Nonane			15	
Octane	3.2	Not Detected	9.5	Not Detected
Pentane	3.2	Not Detected		Not Detected
1-Pentene	3.2	Not Detected	9.2	Not Detected
cis-2-Pentene	3.2	Not Detected	9.2	Not Detected
trans-2-Pentene	3.2	Not Detected	9.2	Not Detected
Propylbenzene	3.2	Not Detected	16	Not Detected
2,2,4-Trimethylpentane	3.2	Not Detected	15	Not Detected
2,3,4-Trimethylpentane	3.2	Not Detected	15	Not Detected
1-Hexene	3.2	Not Detected	11	Not Detected

SAMPLE NAME: 061604-HCC-Outside

1D#: 0406315C-02A

en e	1997 - 1997 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997	60. CL		建)规则 [12]
Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
3-Ethyltoluene	3.2	Not Detected	16	Not Detected
4-Ethyltoluene	3.2	Not Detected	16	Not Detected
2-Ethyltoluene	3.2	Not Detected	16	Not Detected
Decane	3.2	Not Detected	19	Not Detected
1,2,3-Trimethylbenzene	3.2	Not Detected	16	Not Detected
1,3-Diethylbenzene	3.2	Not Detected	18	Not Detected
1,4-Diethylbenzene	3.2	Not Detected	18	Not Detected
Undecane	3.2	Not Detected	20	Not Detected
cis-2-Hexene	7.9	Not Detected	28	Not Detected
trans-2-Hexene	7.9	Not Detected	28	Not Detected
alpha-Pinene	7.9	Not Detected	45	Not Detected
beta-Pinene	7.9	Not Detected	45	Not Detected
Cyclopentene	3.2	Not Detected	8.9	Not Detected
1-Undecene	7.9	Not Detected	50	Not Detected
1-Decene	7.9	Not Detected	46	Not Detected
1-Nonene	3.2	Not Detected	16	Not Detected
1-Octene	3.2	Not Detected	15	Not Detected
1-Heptene	3.2	Not Detected	13	Not Detected
1,3-Butadiene	0.79	Not Detected	1.8	Not Detected
	TENTATIVELY IDEN	ITIFIED COMPOUND	s	
Compound		CAS Number	Match Quality	Amount ppbv
Dodecane		112-40-3	NA	Not Detected
1-Dodecene		112-41-4	NA	Not Detected
Tridecane		629-50-5	NA	Not Detected
Container Type: 6 Liter Summa	a Canister			
Surrogates		%Recovery		Method Limits
1.2-Dichloroethane-d4		116		70-130
.,		102		•
Toluene-d8				70-130
4-Bromofluorobenzene		109		70-130

SAMPLE NAME: 061604-HCC-CAF-SE Outlet Void Space

1D#: 0406315C-03A

สีบัวกับก็) กได้สาร	100.5 (1)	Dajora Borlando de la como de la		
the state of the same of the s	Marie Marie	The second secon	checker and where is a second as a second as	<u> </u>
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	290	Not Detected	940	Not Detected
Ethyl Benzene	290	Not Detected	1300	Not Detected
Styrene	290	Not Detected	1200	Not Detected
Toluene	290	Not Detected	1100	Not Detected
1,2,4-Trimethylbenzene	290	Not Detected	1400	Not Detected
1,3,5-Trimethylbenzene	290	Not Detected	1400	Not Detected
n,p-Xylene	290	Not Detected	1300	Not Detected
o-Xylene	290	Not Detected	1300	Not Detected
Butane	1200	7400	2800	18000
1-Butene	1200	Not Detected	2700	Not Detected
cis-2-Butene	1200	Not Detected	2700	Not Detected
trans-2-butene	1200	Not Detected	2700	Not Detected
Cyclohexane	1200	Not Detected	4000	Not Detected
Cyclopentane	1200	Not Detected	3400	Not Detected
2,2-Dimethylbutane	1200	Not Detected	4100	Not Detected
2,3-Dimethylbutane	1200	2300	4100	8400
2,3-Dimethylpentane	1200	1900	4800	7900
2,4-Dimethylpentane	1200	1400	4800	5800
Heptane	1200	Not Detected	4800	Not Detected
Hexane	1200	Not Detected	4100	Not Detected
Isoprene	1200	Not Detected	3300	Not Detected
Cumene	1200	Not Detected	5800	Not Detected
Isopentane	1200	32000	3500	94000
Methylcyclohexane	1200	Not Detected	4700	Not Detected
Methylcyclopentane	1200	Not Detected	4000	Not Detected
2-Methylheptane	1200	Not Detected	5500	Not Detected
3-Methylheptane	1200	Not Detected	5500	Not Detected
2-Methylhexane	1200	Not Detected	4800	Not Detected
3-Methylhexane	1200	Not Detected	4800	Not Detected
2-Methylpentane	1200	3100	4100	11000
3-Methylpentane	1200	3500	4100	12000
Isobutane	1200	9700	2800	23000
Nonane	1200	Not Detected	6200	Not Detected
Octane	1200	Not Detected	5500	Not Detected
Pentane	1200	1200	3500	3500
1-Pentene	1200	Not Detected	3400	Not Detected
cis-2-Pentene	1200	Not Detected	3400	Not Detected
trans-2-Pentene	1200	Not Detected	3400	Not Detected
Propylbenzene	1200	Not Detected	5800	Not Detected
2,2,4-Trimethylpentane	1200	2000	5500	9600
2,3,4-Trimethylpentane	1200	Not Detected	5500	Not Detected
1-Hexene	1200	Not Detected	4000	Not Detected
1-1 ICACHE	1200	HOI DETECTED	+000	HOLDERCIEC

SAMPLE NAME: 061604-HCC-CAF-SE Outlet Void Space

ID#: 0406315C-03A

de a Nigera	316 1314		क्षेत्रके र संदर्भक्त कर ज	D/F/S/4
O BOOK STANDARD CONTRACTOR OF THE STANDARD CONTR	37	salahan salah		30 ND 113
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
3-Ethyltoluene	1200	Not Detected	5800	Not Detected
4-Ethyltoluene	1200	Not Detected	5800	Not Detected
2-Ethyltoluene	1200	Not Detected	5800	Not Detected
Decane	1200	Not Detected	6800	Not Detected
1,2,3-Trimethylbenzene	1200	Not Detected	5800	Not Detected
1,3-Diethylbenzene	1200	Not Detected	6400	Not Detected
1,4-Diethylbenzene	1200	Not Detected	6400	Not Detected
Undecane	1200	Not Detected	7500	Not Detected
cis-2-Hexene	2900	Not Detected	10000	Not Detected
trans-2-Hexene	2900	Not Detected	10000	Not Detected
alpha-Pinene	2900	Not Detected	16000	Not Detected
beta-Pinene	2900	Not Detected	16000	Not Detected
Cyclopentene	1200	Not Detected	3300	Not Detected
1-Undecene	2900	Not Detected	18000	Not Detected
1-Decene	2900	Not Detected	17000	Not Detected
1-Nonene	1200	Not Detected	6000	Not Detected
1-Octene	1200	Not Detected	5400	Not Detected
1-Heptene	1200	Not Detected	4700	Not Detected
1,3-Butadiene	290	Not Detected	650	Not Detected
	TENTATIVELY IDEN	TIFIED COMPOUNDS	s	
Compound		CAS Number	Match Quality	Amount ppbv
Dodecane		112-40-3	NA	Not Detected
1-Dodecene		112-41-4	NA	Not Detected
Tridecane		629-50-5	NA	Not Detected
Container Type: 5 Liter Tedlar Bag				
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		109		70-130
Toluene-d8		102		70-130

SAMPLE NAME: Lab Blank

ID#: 0406315C-04A

	200 55 70			inguesas -
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Benzene	0.50	Not Detected	1.6	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.2	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene -	0.50	Not Detected	2.2	Not Detected
Butane	2.0	Not Detected	4.8	Not Detected
1-Butene	2.0	Not Detected	4.7	Not Detected
cis-2-Butene	2.0	Not Detected	4.7	Not Detected
trans-2-butene	2.0	Not Detected	4.7	Not Detected
Cyclohexane	2.0	Not Detected	7.0	Not Detected
Cyclopentane	2.0	Not Detected	5.8	Not Detected
2,2-Dimethylbutane	2.0	Not Detected	7.2	Not Detected
2,3-Dimethylbutane	2.0	Not Detected	7.2	Not Detected
2,3-Dimethylpentane	2.0	Not Detected	8.3	Not Detected
2,4-Dimethylpentane	2.0	Not Detected	8.3	Not Detected
Heptane	2.0	Not Detected	8.3	Not Detected
Hexane	2.0	Not Detected	7.2	Not Detected
Isoprene	2.0	Not Detected	5.7	Not Detected
Cumene	2.0	Not Detected	10	Not Detected
Isopentane	2.0	Not Detected	6.0	Not Detected
Methylcyclohexane	2.0	Not Detected	8.2	Not Detected
Methylcyclopentane	2.0	Not Detected	7.0	Not Detected
2-Methylheptane	2.0	Not Detected	9.5	Not Detected
3-Methylheptane	2.0	Not Detected	9.5	Not Detected
2-Methylhexane	2.0	Not Detected	8.3	Not Detected
3-Methylhexane	2.0	Not Detected	8.3	Not Detected
2-Methylpentane	2.0	Not Detected	7.2	Not Detected
3-Methylpentane	2.0	Not Detected	7.2	Not Detected
Isobutane	2.0	Not Detected	4.8	Not Detected
Nonane	2.0	Not Detected	11	Not Detected
Octane	2.0	Not Detected	9.5	Not Detected
Pentane	2.0	Not Detected	6.0	Not Detected
1-Pentene	2.0	Not Detected	5.8	Not Detected
cis-2-Pentene	2.0	Not Detected	5.8	Not Detected
trans-2-Pentene	2.0	Not Detected	5.8	Not Detected
Propylbenzene	2.0	Not Detected	10	Not Detected
2,2,4-Trimethylpentane	2.0	Not Detected	9.5	Not Detected
2,3,4-Trimethylpentane	2.0	Not Detected	9.5	Not Detected
1-Hexene	2.0	Not Detected	7.0	Not Detected

SAMPLE NAME: Lab Blank

ID#: 0406315C-04A

गाउँ हो देशीय स्टब्स

C. F. St.	ka 180		gipálanyas v	30000000000000000000000000000000000000
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
3-Ethyltoluene	2.0	Not Detected	10	Not Detected
4-Ethyltoluene	2.0	Not Detected	10	Not Detected
2-Ethyltoluene	2.0	Not Detected	10	Not Detected
Decane	2.0	Not Detected	12	Not Detected
1,2,3-Trimethylbenzene	2.0	Not Detected	10	Not Detected
1,3-Diethylbenzene	2.0	Not Detected	11	Not Detected
1,4-Diethylbenzene	2.0	Not Detected	11	Not Detected
Undecane	2.0	Not Detected	13	Not Detected
cis-2-Hexene	5.0	Not Detected	17	Not Detected
trans-2-Hexene	5.0	Not Detected	17	Not Detected
alpha-Pinene	5.0	Not Detected	28	Not Detected
beta-Pinene	5.0	Not Detected	28	Not Detected
Cyclopentene	2.0	Not Detected	5.7	Not Detected
1-Undecene	5.0	Not Detected	32	Not Detected
1-Decene	5.0	Not Detected	29	Not Detected
1-Nonene	2.0	Not Detected	10	Not Detected
1-Octene	2.0	Not Detected	9.3	Not Detected
1-Heptene	2.0	Not Detected	8.2	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
	TENTATIVELY IDEN	ITIFIED COMPOUNDS	1	
Compound		CAS Number	Match Quality	Amount ppbv
Dodecane		112-40-3	NA	Not Detected
1-Dodecene		112-41-4	NA	Not Detected
Tridecane		629-50-5	NA	Not Detected
Container Type: NA - Not Applicable	•			
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		110		70-130
Toluene-d8		100		70-130
4-Bromofluorobenzene		100		70-130

SAMPLE NAME: CCV

1D#: 0406315C-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

-Direction control

Compound	%Recovery
Benzene	103
Ethyl Benzene	103
Styrene	112
Toluene	104
1,2,4-Trimethylbenzene	114
1,3,5-Trimethylbenzene	113
m,p-Xylene	107
o-Xylene	105
Butane	112
1-Butene	102
cis-2-Butene	111
trans-2-butene	114
Cyclohexane	104
Cyclopentane	111
2,2-Dimethylbutane	111
2,3-Dimethylbutane	108
2,3-Dimethylpentane	102
2,4-Dimethylpentane	104
Heptane	103
Hexane	105
Isoprene	113
Cumene	113
Isopentane	114
Methylcyclohexane	101
Methylcyclopentane	100
2-Methylheptane	101
3-Methylheptane	101
2-Methylhexane	105
3-Methylhexane	103
2-Methylpentane	105
3-Methylpentane	105
Isobutane	123
Nonane	106
Octane	101
Pentane	112
1-Pentene	113
cis-2-Pentene	112
trans-2-Pentene	112
Propylbenzene	124
2,2,4-Trimethylpentane	102
2,3,4-Trimethylpentane	99
1-Hexene	106

SAMPLE NAME: CCV

1D#: 0406315C-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN



Compound	%Recovery
3-Ethyltoluene	106
4-Ethyltoluene	138 Q
2-Ethyltoluene	120
Decane	108
1,2,3-Trimethylbenzene	121
1,3-Diethylbenzene	116
1,4-Diethylbenzene	117
Undecane	117
cis-2-Hexene	112
trans-2-Hexene	108
alpha-Pinene	105
beta-Pinene	109
Cyclopentene	110
1-Undecene	102
1-Decene	136
1-Nonene	103
1-Octene	102
1-Heptene	103
1,3-Butadiene	117

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

		Method	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	104	70-130	
Toluene-d8	99	70-130	
4-Bromofluorobenzene	103	70-130	



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Religious ingravite on this counter indicates that sample * being shipped in compliance FOLSCM, CA 95630-4719
with all applicable local, State, Faceral, national, and international laws, regulations and (916) 985-1000 FAX (916) 985-1020 handling or arquiping of these samples. Relinquishing signature also indicates agreement to hold harmess, defend, and indemnity Air Toxics Limited against any Catin, demand, or action of any kind related to the contaction, handling, or snipping of samples, D.O.T. Hottine (800) 467-4922 cranmess of any kind. Air Toxics Limited assumes no bability with respect to the collection.

Page _ of _

Tum Around Time: X Normal Rush Specify 17.50	Canister Pressure / Vacuum	27.5 -1.5 C. C.	-30 -2.5 48.45		3.	* *:				SESS Out cyclynation	Se proprio de des	المدارية ال	Bals Intect? Work Order #	Mone 0406315C	
Project info: P.O. * Project * 01005-09 3-000 Project Name Helbed In-	Analyses Requested	7	Chlowid Sphurs, oders, Greending &	L. 11 S.						6/3/64 Notes: Sw 3244 SN 0538	9 4	Same in teller Single	s Apolen	(Jupol Yes No	
Can le saiete zidass	Date & Time Anal	Hearing make tois malling 82, malling	Chloudd Solve	1433 11						A	(Signature) Date Time	Received By: (Signature) Date:Time	Opened By: Temp, (*C)	- 1 Ks	
Schaal Ciry War	Field Sample I.D. Date	CALCOL - NOC - ASD CAMPIN	-9	Shelow	\vdash					Dated me Residence By:	Asceived		arne Air Bil #	X 8457 1979 426	
Contact Person Rebin Company 2 N.3// Address A.1335 Die Phone 6.39 - 836 - 1748 Collected By: Signature	Lab 1.0.	O.A. Descoy -	020 DEILO4-					:		College of Control of	By: (Sugrafula)	Reinquished By: (Signature) Disternment	Shipper Name		Only



WORK ORDER #: 0406315D

Work Order Summary

CLIENT:

Ms. Robin Schilling

Warrenville, IL 60555

BILL TO: Ms. Robin Schilling

ENSR

27755 Diehl Road

27755 Diehl Road Suite 100

Suite 100

ENSR

Warrenville, IL 60555

PHONE:

630-836-1700

P.O. # 2017826

FAX:

630-836-1711

PROJECT#

01005-093-360 Hartford III. Hartford

DATE RECEIVED:

6/17/2004

CONTACT:

Community Center DeDe Dodge

DATE COMPLETED:

6/29/2004

FRACTION# NAME 01A 061604-HCC-MSD 02A 061604-HCC-Outside 03A 061604-HCC-CAF-SE Outlet Void Space 03AA 061604-HCC-CAF-SE Outlet Void Space Dup Lab Blank 04A LCS 05A

RECEIPT TEST VAC/PRES. Air Toxics Ltd. @ 82 4.0 "Hg Air Toxics Ltd. @ 82 4.5 "Hg Air Toxics Ltd. @ 82 Tedlar Bag Air Toxics Ltd. @ 82 Tedlar Bag Air Toxics Ltd. @ 82 NA Air Toxics Ltd. @ 82 NA

CERTIFIED BY:

Sinda d. Fruman

DATE: 06/29/04

Laboratory Director

Certification numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

LABORATORY NARRATIVE Air Toxics Ltd @82 ENSR Workorder# 0406315D

Two 6 Liter Summa Canister and one 5 Liter Tedlar Bag samples were received on June 17, 2004. The laboratory performed analysis for Ethane, Ethene, Acetylene, Propane and Propylene via Air Toxics Limited Method @82. This method describes direct injection of a 1.0 ml sample through a fixed sampling loop followed by GC/FID. See the data sheets for the reporting limit for each compound.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

- B Compound present in laboratory blank greater than reporting limit.
- J Estimated value.
- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the detection limit.
- M Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue

SAMPLE NAME: 061604-HCC-MSD

1D#: 0406315D-01A AIT TOXICS LTD. @ 82 GC/FID

the state of the s	Constitution of the second		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	
Ethane	78	Not Detected	
Ethene	78	Not Detected	
Acetylene	78	Not Detected	
Propane	78	Not Detected	
Propylene	78	Not Detected	

Container Type: 6 Liter Summa Canister

SAMPLE NAME: 061604-HCC-Outside

1D#: 0406315D-02A AIT TOXICS LTD. @ 82 GC/FID

altalius) Disales	\$203E	picetanganan popekandenangan
Compound	Rpt. Limit (ppbv)	Amount (ppbv)
Ethane	79	Not Detected
Ethene	79	Not Detected
Acetylene	79	Not Detected
Propane	79	Not Detected
Propylene	79	Not Detected

Container Type: 6 Liter Summa Canister

SAMPLE NAME: 061604-HCC-CAF-SE Outlet Void Space

1D#: 0406315D-03A AIT TOXICS LTD. @ 82 GC/FID

English Degan		Distriction of the second	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	
Ethane	50	Not Detected	
Ethene	50	Not Detected	
Acetylene	50	Not Detected	
Propane	50	91	
Propylene	50	Not Detected	

Container Type: 5 Liter Tedlar Bag

SAMPLE NAME: 061604-HCC-CAF-SE Outlet Void Space Duplicate

ID#: 0406315D-03AA AIT TOXICS LTD. @ 82 GC/FID

Film(h)po 203(e); O)jy(2)=(c)	e de la completa del completa de la completa del completa de la completa del completa de la completa del completa de la completa del completa			
Compound	Rpt. Limit (ppbv)	Amount (ppbv)		
Ethane	50	Not Detected		
Ethene	50	Not Detected		
Acetylene	50	Not Detected		
Propane	50	83		
Propylene	50	Not Detected		

Container Type: 5 Liter Tedlar Bag

SAMPLE NAME: Lab Blank 1D#: 0406315D-04A AIT TOXICS LTD. @ 82 GC/FID

Algebra De Chie	23E	- Quantification designation (Company) - Company (Company)		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)		
Ethane	50	Not Detected		
Ethene	50	Not Detected		
Acetylene	50	Not Detected		
Propane	50	Not Detected		
Propylene	50	Not Detected		

Container Type: NA - Not Applicable

SAMPLE NAME: LCS

ID#: 0406315D-05A

AIT TOXICS LTD. @ 82 GC/FID



Compound	%Recovery
Ethane	106
Ethene	110
Acetylene	118
Propane	110
Propylene	113

Container Type: NA - Not Applicable

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0406315E

Work Order Summary

CLIENT:

Ms. Robin Schilling

BILL TO: Ms. Robin Schilling

ENSR

ENSR 27755 Diehl Road

27755 Diehl Road Suite 100 Warrenville, IL 60555

Suite 100

Warrenville, IL 60555

PHONE:

630-836-1700

P.O. #

2017826

FAX:

630-836-1711

PROJECT#

01005-093-360 Hartford III. Hartford

DATE RECEIVED:

6/17/04

CONTACT:

Community Center DeDe Dodge

DATE COMPLETED:

6/29/04

			RECEIPT
FRACTION#	NAME	TEST	YAC./PRES.
01A	061604-HCC-MSD	Modified ASTM D-1946	4.0 "Hg
02A	061604-HCC-Outside	Modified ASTM D-1946	4.5 "Hg
03A	061604-HCC-CAF-SE Outlet Void Space	Modified ASTM D-1946	Tedlar Bag
04A	Lab Blank	Modified ASTM D-1946	NA
05A	LCS	Modified ASTM D-1946	NA

Sinda d Fruman CERTIFIED BY:

06/29/04 DATE:

Laboratory Director

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- Al 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE Modified ASTM D-1946 ENSR

Workorder# 0406315E

Two 6 Liter Summa Canister and one 5 Liter Tedlar Bag samples were received on June 17, 2004. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample. See the data sheets for the reporting limits for each compound.

Requirement	ASTM D-1946	ATL Modifications
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a >/= 95% accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL (2.0 mL for He and H2) on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 30% RPD for detections > 5 X's the RL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

- B Compound present in laboratory blank greater than reporting limit.
- J Estimated value.
- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the detection limit.
- M Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

SAMPLE NAME: 061604-HCC-MSD

ID#: 0406315E-01A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

English Selection (Action Control Con			
Rpt. Limit	Amount (%)		
0.16	21		
0.00016	0.014		
0.016	0.059		
	Rpt. Limit (%) 0.16 0.00016		

Container Type: 6 Liter Summa Canister

SAMPLE NAME: 061604-HCC-Outside

ID#: 0406315E-02A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

egg in a

The state of the s	2 (1712)	Days a block
Compound	Rpt. Limit	Amount (%)
Oxygen	0.16	21
Methane	0.00016	0.00026
Carbon Dioxide	0.016	0.042

Container Type: 6 Liter Summa Canister

Same

SAMPLE NAME: 061604-HCC-CAF-SE Outlet Void Space

ID#: 0406315E-03A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

	ASIMA			
Compound	Rpt. Limit	Amount (%)		
Oxygen	0.10	20		
Methane	0.00010	0.11		
Carbon Dioxide	0.010	0.13		

Container Type: 5 Liter Tedlar Bag

SAMPLE NAME: Lab Blank

ID#: 0406315E-04A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

FIO 2000 OrdFJE Ordensen och kalender en och ender		NATIONAL SERVICE PLANTS OF THE
Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected

Container Type: NA - Not Applicable

SAMPLE NAME: LCS

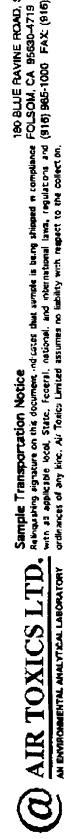
ID#: 0406315E-05A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946



Compound	%Recovery
Oxygen	92
Methane	100
Carbon Dioxide	100

Container Type: NA - Not Applicable



CHAIN-OF-CUSTODY RECORD

with all applicable local, State, Federal, national, and inhernational laws, regulations and (916) 965-1000. FAX: (916) 965-1020 handling or shipping of these samples. Relinquishing signature a.so indicates agreement to hold harmess, defend, and incemnify Air Toxics Emited against any claim, demand, or action of any ordinances of any kine. Air Toxics Limited assumes no liability with respect to the collection.

Mind, relateral to the collection, handing, or shaping of pamples, D.O.T. Hotisse (800) 467-4922

180 BLUE PAVINE ROAD, SUITE B

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APPENDIX H

AIR TOXICS LTD LABORATORY REPORT 0406343					
Field Sample ID	Sample Location Description	Type/Container	Laboratory Sample ID	Analysis	Method
061704-HCC-Outside	Outside of Hartford Community	Outside Air / 30-minute	0406343B-01A	VOCs	Mod. TO-15
West	Center - West side of building.	Summa Canister	0406343BR1-01A	VOCs	Mod. TO-15
		Í	0406343C-01A	VOCs	Mod. TO-15
			0406343D-01A	_Additional VOCs	@ 82 GC/FID
			0406343E-01A	Mod. Natural Gases	ASTM D-1946
061704-HCC-WFD	Hartford Community Center 1st	Indoor Air/30-minute	0406343B-02A	VOCs	Mod. TO-15
,	Floor - Women's bathroom	Summa Canister	0406343BR1-02A	VOCs	Mod. TO-15
	adjacent to floor drain.		0406343C-02A	VOCs	Mod. TO-15
			0406343D-02A	Additional VOCs	@ 82 GC/FID
			0406343E-02A	Mod. Natural Gases	ASTM D-1946
061704-HCC-MSD	Hartford Community Center 1st	Indoor Air/30-minute	0406343B-03A	VOCs	Mod. TO-15
	Floor - Men's bathroom adjacent	Summa Canister	0406343BR1-03A	VOCs	Mod. TO-15
	to shower drain.		0406343C-03A	VOCs	Mod. TO-15
			0406343D-03A	Additional VOCs	@ 82 GC/FID
			0406343E-03A	Mod. Natural Gases	ASTM D-1946

AN ENVIRONMENTAL ANALYTICAL LABORATORY

0406343B **WORK ORDER #:**

Work Order Summary

CLIENT:

Ms. Robin Schilling

BILL TO: Ms. Robin Schilling

ENSR

ENSR

27755 Diehl Road

Warrenville, IL 60555

27755 Diehl Road

Suite 100

Suite 100

Warrenville, IL 60555

PHONE:

630-836-1700

P.O. # 2017826

FAX:

630-836-1711

PROJECT #

01005.093.360 Hartford, IL Hartford

DECEIDE

DATE RECEIVED:

06/18/04

CONTACT:

Community Center DeDe Dodge

DATE COMPLETED: **DATE REISSUED:**

7/12/04

07/02/04

			RECEIPT
FRACTION #	<u>NAME</u>	<u>TEST</u>	VAC./PRES.
01A	061704-HCC-Outside West	Modified TO-15	5.5 "Hg
02A	061704-HCC-WFD	Modified TO-15	4.0 "Hg
03A	061704-HCC-MSD	Modified TO-15	4.5 "Hg
04A	Lab Blank	Modified TO-15	NA
05A	CCV	Modified TO-15	NA
06A	LCS	Modified TO-15	NA

CERTIFIED	BY:

Sinda d. Fruman

07/02/04 DATE:

Laboratory Director

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE Modified TO-15 ENSR

Workorder# 0406343B

Three 6 Liter Summa Canister samples were received on June 18, 2004. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	TO-14A/TO-15	ATL Modifications
BFB acceptance criteria	CLP protocol (TO-15)	SW-846 protocol
Concentration of IS spike	10 ppbv (TO-15)	25 ppbv
Dilutions for initial calibration	Dynamic dilutions or static using canisters	Syringe dilutions
Daily CCV	= 30% Difference</td <td><!--= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers</p--></td>	= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers</p
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43.	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58.
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Sample Drying System	Nafion Dryer (TO-14A)	Multisorbent
Sample Load Volume	400 mL (TO-14A)	Varied to 0.2 L.
Blank Acceptance Criteria.	< 0.20 ppbv (TO-14A)	< RL
BFB Absolute Abundance Criteria (TO-14A)	Within 10% of that from the previous day.	CCV internal standard area counts are compared to ICAL, corrective action for > 40 % D.
Initial Calibration	<= 30 %RSD (TO-14A)	<= 30 % RSD with 2 compounds allowed out to <= 40 % RSD.
IS Recoveries	Within 40% of mean over ICAL for blanks, and within 40 % of daily CCV for samples. (TO-15)	Within 40% of CCV recoveries for blank and samples.
Method Detection Limit	Follow 40CFR Pt.136 App. B	The Method Detection Limit study met all relevant requirements in 40CFR Pt. 136, Appendix B (including a statistically calculated MDL that is less than the Reporting Limit) with the exception that for some compounds the level of the analyte in the spiked

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The daily calibration standard (CCV) analyzed on 06/27/04 did not meet method required acceptance criteria of 70-130% recovery for Methyl tert-butyl ether. Recovery was low and associated non-detects in all samples are considered to be estimated results with low bias.

Dilution was performed on sample 061704-HCC-MSD due to the presence of high level non-target species.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated Peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

SAMPLE NAME: 061704-HCC-Outside West

ID#: 0406343B-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

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Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.82	Not Detected	4.1	Not Detected
Freon 114	0.82	Not Detected	5.8	Not Detected
Chloromethane	3.3	Not Detected	6.9	Not Detected
Vinyl Chloride	0.82	Not Detected	2.1	Not Detected
1,3-Butadiene	0.82	Not Detected	1.8	Not Detected
Bromomethane	0.82	Not Detected	3.2	Not Detected
Chloroethane	0.82	Not Detected	2.2	Not Detected
Freon 11	0.82	Not Detected	4.7	Not Detected
Ethanol	3.3	Not Detected	6.3	Not Detected
Freon 113	0.82	Not Detected	6.4	Not Detected
1,1-Dichloroethene	0.82	Not Detected	3.3	Not Detected
Acetone	3.3	7.1	7.9	17
2-Propanol	3.3	Not Detected	8.2	Not Detected
Carbon Disulfide	0.82	Not Detected	2.6	Not Detected
3-Chloropropene	3.3	Not Detected	10	Not Detected
Methylene Chloride	0.82	Not Detected	2.9	Not Detected
Methyl tert-butyl ether	0.82	Not Detected U J	3.0	Not Detected U J
trans-1,2-Dichloroethene	0.82	Not Detected	3.3	Not Detected
Hexane	0.82	Not Detected	2.9	Not Detected
Vinyl Acetate	3.3	Not Detected	12	Not Detected
1,1-Dichloroethane	0.82	Not Detected	3.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.82	1,4	2.4	4.2
cis-1,2-Dichloroethene	0.82	Not Detected	3.3	Not Detected
Tetrahydrofuran	0.82	Not Detected	2.4	Not Detected
Chloroform	0.82	Not Detected	4.1	Not Detected
1,1,1-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Cyclohexane	0.82	Not Detected	2.9	Not Detected
Carbon Tetrachloride	0.82	Not Detected	5.2	Not Detected
2,2,4-Trimethylpentane	0.82	Not Detected	3.9	Not Detected
Benzene	0.82	Not Detected	2.7	Not Detected
1,2-Dichloroethane	0.82	Not Detected	3.4	Not Detected
Heptane	0.82	Not Detected	3.4	Not Detected
Trichloroethene	0.82	Not Detected	4.5	Not Detected
1,2-Dichloropropane	0.82	Not Detected	3.8	Not Detected
1,4-Dioxane	3.3	Not Detected	12	Not Detected
Bromodichloromethane	0.82	Not Detected	5.6	Not Detected
cis-1,3-Dichloropropene	0.82	Not Detected	3.8	Not Detected
4-Methyl-2-pentanone	0.82	Not Detected	3.4	Not Detected
Toluene	0.82	Not Detected	3.1	Not Detected
trans-1,3-Dichloropropene	0.82	Not Detected	3.8	Not Detected
1,1,2-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Tetrachloroethene	0.82	Not Detected	5.6	Not Detected

SAMPLE NAME: 061704-HCC-Outside West

ID#: 0406343B-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

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Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Hexanone	3.3	Not Detected	14	Not Detected
Dibromochloromethane	0.82	Not Detected	7.1	Not Detected
1,2-Dibromoethane (EDB)	0.82	Not Detected	6.4	Not Detected
Chlorobenzene	0.82	Not Detected	3.8	Not Detected
Ethyl Benzene	0.82	Not Detected	3.6	Not Detected
m,p-Xylene	0.82	Not Detected	3.6	Not Detected
o-Xylene	0.82	Not Detected	3.6	Not Detected
Styrene	0.82	Not Detected	3.5	Not Detected
Bromoform	0.82	Not Detected	8.6	Not Detected
Cumene	0.82	Not Detected	4.1	Not Detected
1,1,2,2-Tetrachloroethane	0.82	Not Detected	5.7	Not Detected
Propylbenzene	0.82	Not Detected	4.1	Not Detected
4-Ethyltoluene	0.82	Not Detected	4.1	Not Detected
1,3,5-Trimethylbenzene	0.82	Not Detected	4.1	Not Detected
1,2,4-Trimethylbenzene	0.82	Not Detected	4.1	Not Detected
1,3-Dichlorobenzene	0.82	Not Detected	5.0	Not Detected
1,4-Dichlorobenzene	0.82	Not Detected	5.0	Not Detected
alpha-Chlorotoluene	0.82	Not Detected	4.3	Not Detected
1,2-Dichlorobenzene	0.82	Not Detected	5.0	Not Detected
1,2,4-Trichlorobenzene	3.3	Not Detected	25	Not Detected
Hexachlorobutadiene	3.3	Not Detected	36	Not Detected

UJ = Non-detected compound associated with low bias in the CCV

Container Type: 6 Liter Summa Canister

•		Method
Surrogates	%Recovery	Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	100	70-130

SAMPLE NAME: 061704-HCC-WFD

ID#: 0406343B-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.78	Not Detected	3.9	Not Detected
Freon 114	0.78	Not Detected	5.5	Not Detected
Chloromethane	3.1	Not Detected	6.5	Not Detected
Vinyl Chloride	0.78	Not Detected	2.0	Not Detected
1,3-Butadiene	0.78	Not Detected	1.7	Not Detected
Bromomethane	0.78	Not Detected	3.0	Not Detected
Chloroethane	0.78	Not Detected	2.1	Not Detected
Freon 11	0.78	Not Detected	4.4	Not Detected
Ethanol	3.1	25	5.9	48
Freon 113	0.78	Not Detected	6.0	Not Detected
1,1-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Acetone	3.1	30	7.5	74
2-Propanol	3.1	Not Detected	7.7	Not Detected
Carbon Disulfide	0.78	12	2.4	37
3-Chloropropene	3.1	Not Detected	9.9	Not Detected
Methylene Chloride	0.78	Not Detected	2.7	Not Detected
Methyl tert-butyl ether	0.78	Not Detected U J	2.8	Not Detected U
trans-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Hexane	0.78	36	2.8	130
Vinyl Acetate	3.1	Not Detected	11	Not Detected
1,1-Dichloroethane	0.78	Not Detected	3.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.78	37	2.3	110
cis-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Tetrahydrofuran	0.78	40	2.3	120
Chloroform	0.78	Not Detected	3.8	Not Detected
1,1,1-Trichloroethane	0.78	Not Detected	4.3	Not Detected
Cyclohexane	0.78	24	2.7	84
Carbon Tetrachloride	0.78	Not Detected	5.0	Not Detected
2,2,4-Trimethylpentane	0.78	54	3.7	260
Benzene	0.78	14	2.5	47
1,2-Dichloroethane	0.78	Not Detected	3.2	Not Detected
Heptane	0.78	2.1	3.2	8.6
Trichloroethene	0.78	Not Detected	4.2	Not Detected
1,2-Dichloropropane	0.78	Not Detected	3.6	Not Detected
1,4-Dioxane	3.1	Not Detected	11	Not Detected
Bromodichloromethane	0.78	Not Detected	5.3	Not Detected
cis-1,3-Dichloropropene	0.78	Not Detected	3.6	Not Detected
4-Methyl-2-pentanone	0.78	3.4	3.2	14
Toluene	0.78	0.99	3.0	3.8
trans-1,3-Dichloropropene	0.78	Not Detected	3.6	Not Detected
1,1,2-Trichloroethane	0.78	Not Detected	4.3	Not Detected
Tetrachloroethene	0.78	Not Detected	5.3	Not Detected

SAMPLE NAME: 061704-HCC-WFD

ID#: 0406343B-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

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Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Hexanone	3.1	Not Detected	13	Not Detected
Dibromochloromethane	0.78	Not Detected	6.7	Not Detected
1,2-Dibromoethane (EDB)	0.78	Not Detected	6.0	Not Detected
Chlorobenzene	0.78	Not Detected	3.6	Not Detected
Ethyl Benzene	0.78	Not Detected	3.4	Not Detected
m,p-Xylene	0.78	2.7	3.4	12
o-Xylene	0.78	1.5	3.4	6.8
Styrene	0.78	Not Detected	3.4	Not Detected
Bromoform	0.78	Not Detected	8.1	Not Detected
Cumene	0.78	Not Detected	3.9	Not Detected
1,1,2,2-Tetrachloroethane	0.78	Not Detected	5.4	Not Detected
Propylbenzene	0.78	Not Detected	3.9	Not Detected
4-Ethyltoluene	0.78	4.0	3.9	20
1,3,5-Trimethylbenzene	0.78	2.1	3.9	11
1,2,4-Trimethylbenzene	0.78	7.4	3.9	37
1,3-Dichlorobenzene	0.78	Not Detected	4.7	Not Detected
1,4-Dichlorobenzene	0.78	17	4.7	110
alpha-Chlorotoluene	0.78	Not Detected	4.1	Not Detected
1,2-Dichlorobenzene	0.78	Not Detected	4.7	Not Detected
1,2,4-Trichlorobenzene	3.1	Not Detected	23	Not Detected
Hexachlorobutadiene	3.1	Not Detected	34	Not Detected

UJ = Non-detected compound associated with low bias in the CCV

Container Type: 6 Liter Summa Canister

		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	101	70-130	
1,2-Dichloroethane-d4	110	70-130	
4-Bromofluorobenzene	99	70-130	

SAMPLE NAME: 061704-HCC-MSD

ID#: 0406343B-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

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Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	-Amount (uG/m3)
Freon 12	5.2	Not Detected	26	Not Detected
Freon 114	5.2	Not Detected	37	Not Detected
Chloromethane	21	Not Detected	44	Not Detected
Vinyl Chloride	5.2	Not Detected	14	Not Detected
1,3-Butadiene	5.2	Not Detected	12	Not Detected
Bromomethane	5.2-	Not Detected	- 21	Not Detected
Chloroethane	5.2	Not Detected	14	Not Detected
Freon 11	5.2	Not Detected	30	Not Detected
Ethanol	21	33	40	64
Freon 113	···· 5.2	Not Detected	41	Not Detected
1,1-Dichloroethene	5.2	Not Detected	21	Not Detected
Acetone	21	Not Detected	51	Not Detected
2-Propanol	21	Not Detected	52	Not Detected
Carbon Disulfide	5.2	Not Detected	17	Not Detected
3-Chloropropene	·· 21	Not Detected	67	Not Detected
Methylene Chloride	5.2	Not Detected	18	Not Detected
Methyl tert-butyl ether	5.2	Not Detected U J	19	Not Detected U
trans-1,2-Dichloroethene	5.2	Not Detected	21	Not Detected
Hexane	5.2	250	19	900
Vinyl Acetate	21	Not Detected	75	Not Detected
1,1-Dichloroethane	5.2	Not Detected	22	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.2	20	16	59
cis-1,2-Dichloroethene	5.2	Not Detected	21	Not Detected
Tetrahydrofuran	5.2	97	16	290
Chloroform	···· 5 <u>.2</u>	Not Detected	26	Not Detected
1,1,1-Trichloroethane	5.2	Not Detected	29	Not Detected
Cyclohexane	5.2	220	18	760
Carbon Tetrachloride	5.2	Not Detected	34	Not Detected
2,2,4-Trimethylpentane	5.2	680	25	3200
Benzene	5.2	34	• 17	110
1,2-Dichloroethane	5.2	Not Detected	22	Not Detected
Heptane	5.2	11	22	44
Trichloroethene	5.2	Not Detected	29	Not Detected
1,2-Dichloropropane	5.2	Not Detected	25	Not Detected
1,4-Dioxane	21	Not Detected	77	Not Detected
Bromodichloromethane	5.2	Not Detected	36	Not Detected
cis-1,3-Dichloropropene	5.2	Not Detected	24	Not Detected
4-Methyl-2-pentanone	5.2	Not Detected	22	Not Detected
Toluene	···· 5.2	Not Detected	20	Not Detected
trans-1,3-Dichloropropene	5.2 ····	Not Detected	24	Not Detected
1,1,2-Trichloroethane	5.2	Not Detected	29	Not Detected
Tetrachloroethene	5.2	Not Detected	36	Not Detected

SAMPLE NAME: 061704-HCC-MSD ID#: 0406343B-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

ing Appli		e de la de	operatoristics of the	
Filter Discourse of the control of t			Balance and restrict R	Pode For Fine
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Hexanone	21	Not Detected	87	Not Detected
Dibromochloromethane	5.2	Not Detected	45	Not Detected
1,2-Dibromoethane (EDB)	5.2	Not Detected	41	Not Detected
Chlorobenzene	5.2	Not Detected	24	Not Detected
Ethyl Benzene	5.2	Not Detected	23	Not Detected
m,p-Xylene	5.2	Not Detected	23	Not Detected
o-Xylene	5.2	Not Detected	23	Not Detected
Styrene	5.2	Not Detected	23	Not Detected
Bromoform	5.2	Not Detected	55	Not Detected
Cumene	5.2	Not Detected	26	Not Detected
1,1,2,2-Tetrachloroethane	5.2	Not Detected	37	Not Detected
Propylbenzene	5.2	Not Detected	26	Not Detected
4-Ethyltoluene	5.2	Not Detected	26	Not Detected
1,3,5-Trimethylbenzene	5.2	Not Detected	26	Not Detected
1,2,4-Trimethylbenzene	5.2	Not Detected	26	Not Detected
1,3-Dichlorobenzene	5.2	Not Detected	32	Not Detected
1,4-Dichlorobenzene	5.2	30	32	180
alpha-Chlorotoluene	5.2	Not Detected	28	Not Detected
1,2-Dichlorobenzene	5.2	Not Detected	32	Not Detected
1,2,4-Trichlorobenzene	21	Not Detected	160	Not Detected
Hexachlorobutadiene	21	Not Detected	230	Not Detected

UJ = Non-detected compound associated with low bias in the CCV

Container Type: 6 Liter Summa Canister

		Method
Surrogates	%Recovery	Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	114	70-130
4-Bromofluorobenzene	97	70-130

SAMPLE NAME: Lab Blank ID#: 0406343B-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

	ATA TO			j
	en e	·		· / . · · · · · · · · · · · · · · · · ·
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.6	Not Detected
Chloromethane	2.0	Not Detected	4.2	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	2.0	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.9	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	5.0	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.4	Not Detected
Methylene Chloride	0.50	Not Detected	1.8	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
Vinyl Acetate	2.0	Not Detected	7.2	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.5	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.8	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.2	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.4	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.1	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.3	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.1	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.8	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected

SAMPLE NAME: Lab Blank ID#: 0406343B-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

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Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Hexanone	2.0	Not Detected	8.3	Not Detected
Dibromochloromethane	0.50	Not Detected	4.3	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.9	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.2	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.5	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.5	Not Detected
Propylbenzene	0.50	Not Detected	2.5	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.5	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	22	Not Detected
Container Type: NA - Not Applicab	le			
Surrogates		%Recovery		Method Limits
Toluene-d8		102		70-130
1,2-Dichloroethane-d4		103		70-130
4-Bromofluorobenzene		98		70-130

SAMPLE NAME: CCV 1D#: 0406343B-05A MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

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SAMPLE NAME: LCS

ID#: 0406343B-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

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Compound	%Recovery
Freon 12	76
Freon 114	91
Chloromethane	100
Vinyl Chloride	84
1,3-Butadiene	89
Bromomethane	91
Chloroethane	131 Q
Freon 11	83
Ethanol	135
Freon 113_	78
1,1-Dichloroethene	82
Acetone	101
2-Propanol	102
Carbon Disulfide	87
3-Chloropropene	90
Methylene Chloride	96
Methyl tert-butyl ether	86
trans-1,2-Dichloroethene	81
Hexane	95
Vinyl Acetate	109
1,1-Dichloroethane	96
2-Butanone (Methyl Ethyl Ketone)	94
cis-1,2-Dichloroethene	76
Tetrahydrofuran	102
Chloroform	83
1,1,1-Trichloroethane	95
Cyclohexane	88
Carbon Tetrachloride	105
2,2,4-Trimethylpentane	81
Benzene	84
1,2-Dichloroethane	96
Heptane	84
Trichloroethene	86
1,2-Dichloropropane	105
1,4-Dioxane	103
Bromodichloromethane	90
cis-1,3-Dichloropropene	102
4-Methyl-2-pentanone	114
Toluene	76
trans-1,3-Dichloropropene	105
1,1,2-Trichloroethane	80
Tetrachloroethene	76

SAMPLE NAME: LCS 1D#: 0406343B-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Compound %Recovery 2-Hexanone 126 93 Dibromochloromethane 1,2-Dibromoethane (EDB) 84 78 Chlorobenzene 74 Ethyl Benzene 74 m,p-Xylene o-Xylene 78 Styrene 87 **Bromoform** 92 76 Cumene 86 1,1,2,2-Tetrachloroethane 59 Q Propylbenzene 4-Ethyltoluene 84 79 1,3,5-Trimethylbenzene 81 1,2,4-Trimethylbenzene 77 1,3-Dichlorobenzene 76 1,4-Dichlorobenzene 129 alpha-Chlorotoluene 74 1,2-Dichlorobenzene 84 1,2,4-Trichlorobenzene 90 Hexachlorobutadiene

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

		Method Limits	
Surrogates	%Recovery		
Toluene-d8	103	70-130	
1,2-Dichloroethane-d4	108	70-130	
4-Bromofluorobenzene	99	70-130	

CHAIN-OF-CUSTODY RECORD

AIR TOXICS LTD. Relinguishing signature on this document indicates that sample is being shipped in compliance FOLSOM, CA 95630-4719 with all applicable local, State, Federal, national, and international laws, regulatings and (816) 865-1000 FAX: (816) 905-1020 an environmental analytical Laborations of any land. Ar Toxical Limited assumes no liability with respect to the collection, harding or shipping of these samples. Relinguishing suprature size indicates surrementational local and indicates after a samples indicates surrementation local. kind, related to the collection, hanching, or shopping of samples, 0.0.T. Hotline (500) 467-4922

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0406343BR1

Work Order Summary

CLIENT:

Ms. Robin Schilling

ENSR

27755 Diehl Road

Suite 100

Warrenville, IL 60555

PHONE:

630-836-1700 630-836-1711

FAX:

6/18/2004

DATE COMPLETED:

DATE RECEIVED:

7/2/2004 DATE REISSUED: 7/12/04

BILL TO: Ms. Robin Schilling

ENSR

27755 Diehl Road

Suite 100

Warrenville, IL 60555

P.O. # 2017826

PROJECT#

01005.093.360 Hartford, IL Hartford

CONTACT:

Community Center De Dodge

			RECEIPT
FRACTION #	<u>NAME</u>	<u>TEST</u>	VAC/PRES.
01A	061704-HCC-Outside West	Modified TO-15	5.5 "Hg
02A	061704-HCC-WFD	Modified TO-15	4.0 "Hg
03A	061704-HCC-MSD	Modified TO-15	4.5 "Hg
04A	Lab Blank	Modified TO-15	NA .
05A	CCV	Modified TO-15	NA
06A	LCS	Modified TO-15	NA

CERTIFIED BY:

Sinda d. Fruman

Laboratory Director

07/12/04 DATE:

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE Modified TO-15 ENSR Workorder# 0406343BR1

Three 6 Liter Summa Canister samples were received on June 18, 2004. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	TO-14A/TO-15	ATL Modifications
BFB acceptance criteria	CLP protocol (TO-15)	SW-846 protocol
Concentration of IS spike	10 ppbv (TO-15)	25 ppbv
Dilutions for initial calibration	Dynamic dilutions or static using canisters	Syringe dilutions
Daily CCV	= 30% Difference</td <td><!--= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers</p--></td>	= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers</p
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43.	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58.
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Sample Drying System	Nafion Dryer (TO-14A)	Multisorbent
Sample Load Volume	400 mL (TO-14A)	Varied to 0.2 L.
Blank Acceptance Criteria.	< 0.20 ppbv (TO-14A)	< RL
BFB Absolute Abundance Criteria (TO-14A)	Within 10% of that from the previous day.	CCV internal standard area counts are compared to ICAL, corrective action for > 40 % D.
Initial Calibration	= 30 %RSD (TO-14A)</td <td><!--= 30 % RSD with 2 compounds allowed out to </= 40 % RSD.</p--></td>	= 30 % RSD with 2 compounds allowed out to </= 40 % RSD.</p
IS Recoveries	Within 40% of mean over ICAL for blanks, and within 40% of daily CCV for samples. (TO-15)	Within 40% of CCV recoveries for blank and samples.
Method Detection Limit	Follow 40CFR Pt.136 App. B	The Method Detection Limit study met all relevant requirements in 40CFR Pt. 136, Appendix B (including a statistically calculated MDL that is less than the Reporting Limit) with the exception that for some compounds the level of the analyte in the spiked

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The daily calibration standard (CCV) analyzed on 06/27/04 did not meet method required acceptance criteria of 70-130% recovery for Methyl tert-butyl ether. Recovery was low and associated non-detects in all samples are considered to be estimated results with low bias.

Dilution was performed on sample 061704-HCC-MSD due to the presence of high level non-target species.

WORK ORDER WAS REISSUED ON 07/12/04 IN ORDER TO CORRECT THE DAILY CALIBRATION RESULTS.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated Peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

SAMPLE NAME: 061704-HCC-Outside West

ID#: 0406343BR1-01A

illo Nimb Dille Cition	\$06274U 113		ais of Analysis a	
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Freon 12	0.82	Not Detected	4.1	Not Detected
Freon 114	0.82	Not Detected	5.8	Not Detected
Chloromethane	3.3	Not Detected	6.9	Not Detected
/inyl Chloride	0.82	Not Detected	2.1	Not Detected
,3-Butadiene	0.82	Not Detected	1.8	Not Detected
Bromomethane	0.82	Not Detected	3.2	Not Detected
Chloroethane	0.82	Not Detected	2.2	Not Detected
reon 11	0.82	Not Detected	4.7	Not Detected
Ethanol	3.3	Not Detected	6.3	Not Detected
reon 113	0.82	Not Detected	6.4	Not Detected
,1-Dichloroethene	0.82	Not Detected	3.3	Not Detected
Acetone	3.3	7.1	7.9	17
?-Propanol	3.3	Not Detected	8.2	Not Detected
Carbon Disulfide	0.82	Not Detected	2.6	Not Detected
3-Chloropropene	3.3	Not Detected	10	Not Detected
Methylene Chloride	0.82	Not Detected	2.9	Not Detected
Methyl tert-butyl ether	0.82	Not Detected U J	3.0	Not Detected U
rans-1,2-Dichloroethene	0.82	Not Detected	3.3	Not Detected
Hexane	0.82	Not Detected	2.9	Not Detected
√inyl Acetate	3.3	Not Detected	12	Not Detected
1,1-Dichloroethane	0.82	Not Detected	3.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.82	1.4	2.4	4.2
cis-1,2-Dichloroethene	0.82	Not Detected	3.3	Not Detected
Tetrahydrofuran	0.82	Not Detected	2.4	Not Detected
Chloroform	0.82	Not Detected	4.1	Not Detected
1,1,1-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Cyclohexane	0.82	Not Detected	2.9	Not Detected
Carbon Tetrachloride	0.82	Not Detected	5.2	Not Detected
2,2,4-Trimethylpentane	0.82	Not Detected	3.9	Not Detected
Benzene	0.82	Not Detected	2.7	Not Detected
1,2-Dichloroethane	0.82	Not Detected	3.4	Not Detected
Heptane	0.82	Not Detected	3.4	Not Detected
Trichloroethene	0.82	Not Detected	4.5	Not Detected
1,2-Dichloropropane	0.82	Not Detected	3.8	Not Detected
1,4-Dioxane	3.3	Not Detected	12	Not Detected
Bromodichloromethane	0.82	Not Detected	5.6	Not Detected
cis-1,3-Dichloropropene	0.82	Not Detected	3.8	Not Detected
4-Methyl-2-pentanone	0.82	Not Detected	3.4	Not Detected
Toluene	0.82	Not Detected	3.1	Not Detected
trans-1,3-Dichloropropene	0.82	Not Detected	3.8	Not Detected
1,1,2-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Tetrachloroethene	0.82	Not Detected	5.6	Not Detected

SAMPLE NAME: 061704-HCC-Outside West

ID#: 0406343BR1-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Nigingo:		المراجع والمتعادلة	an skanyon. S	Mag 100
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Hexanone	3.3	Not Detected	14	Not Detected
Dibromochloromethane	0.82	Not Detected	7.1	Not Detected
1,2-Dibromoethane (EDB)	0.82	Not Detected	6.4	Not Detected
Chlorobenzene	0.82	Not Detected	3.8	Not Detected
Ethyl Benzene	0.82	Not Detected	3.6	Not Detected
m,p-Xylene	0.82	Not Detected	3.6	Not Detected
o-Xylene	0.82	Not Detected	3.6	Not Detected
Styrene	0.82	Not Detected	3.5	Not Detected
Bromoform	0.82	Not Detected	8.6	Not Detected
Cumene	0.82	Not Detected	4.1	Not Detected
1,1,2,2-Tetrachloroethane	0.82	Not Detected	5.7	Not Detected
Propylbenzene	0.82	Not Detected	4.1	Not Detected
4-Ethyltoluene	0.82	Not Detected	4.1	Not Detected
1,3,5-Trimethylbenzene	0.82	Not Detected	4.1	Not Detected
1,2,4-Trimethylbenzene	0.82	Not Detected	4.1	Not Detected
1,3-Dichlorobenzene	0.82	Not Detected	5.0	Not Detected
1,4-Dichlorobenzene	0.82	Not Detected	5.0	Not Detected
alpha-Chlorotoluene	0.82	Not Detected	4.3	Not Detected
1,2-Dichlorobenzene	0.82	Not Detected	5.0	Not Detected
1,2,4-Trichlorobenzene	3.3	Not Detected	25	Not Detected
Hexachlorobutadiene	3.3	Not Detected	36	Not Detected

UJ = Non-detected compound associated with low bias in the CCV

		Method
Surrogates	%Recovery	Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	100	70-130

SAMPLE NAME: 061704-HCC-WFD

ID#: 0406343BR1-02A

analmo Tra Arabica Dipazio	₹106? ?∞। 		সভত সুত্রমনীয়াই ক্রিক্ট ব্রত্তীগ্রন্থাত্ত্ব	
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Freon 12	0.78	Not Detected	3.9	Not Detected
Freon 114	0.78	Not Detected	5.5	Not Detected
Chloromethane	3.1	Not Detected	6.5	Not Detected
Vinyl Chloride	0.78	Not Detected	2.0	Not Detected
1,3-Butadiene	0.78	Not Detected	1.7	Not Detected
Bromomethane	0.78	Not Detected	3.0	Not Detected
Chloroethane	0.78	Not Detected	2.1	Not Detected
Freon 11	0.78	Not Detected	4.4	Not Detected
Ethanol	3.1	25	5.9	48
Freon 113	0.78	Not Detected	6.0	Not Detected
1,1-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Acetone	3.1	30	7.5	74
2-Propanol	3.1	Not Detected	7.7	Not Detected
Carbon Disulfide	0.78	12	2.4	37
3-Chloropropene	3.1	Not Detected	9.9	Not Detected
Methylene Chloride	0.78	Not Detected	2.7	Not Detected
Methyl tert-butyl ether	0.78	Not Detected U J	2.8	Not Detected U
trans-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Hexane	0.78	36	2.8	130
Vinyl Acetate	3.1	Not Detected	11	Not Detected
1,1-Dichloroethane	0.78	Not Detected	3.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.78	37	2.3	110
cis-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Tetrahydrofuran	0.78	40	2.3	120
Chloroform	0.78	Not Detected	3.8	Not Detected
1,1,1-Trichloroethane	0.78	Not Detected	4.3	Not Detected
Cyclohexane	0.78	24	2.7	84
Carbon Tetrachloride	0.78	Not Detected	5.0	Not Detected
2,2,4-Trimethylpentane	0.78	54	3.7	260
Benzene	0.78	14	2.5	47
1,2-Dichloroethane	0.78	Not Detected	3.2	Not Detected
Heptane	0.78	2.1	3.2	8.6
Trichloroethene	0.78	Not Detected	4.2	Not Detected
1,2-Dichloropropane	0.78	Not Detected	3.6	Not Detected
1,4-Dioxane	3.1	Not Detected	11	Not Detected
Bromodichloromethane	0.78	Not Detected	5.3	Not Detected
cis-1,3-Dichloropropene	0.78	Not Detected	3.6	Not Detected
4-Methyl-2-pentanone	0.78	3.4	3.2	14
Toluene	0.78	0.99	3.0	3.8
trans-1,3-Dichloropropene	0.78	Not Detected	3.6	Not Detected
1,1,2-Trichloroethane	0.78	Not Detected	4.3	Not Detected
Tetrachloroethene	0.78	Not Detected	5.3	Not Detected

SAMPLE NAME: 061704-HCC-WFD

ID#: 0406343BR1-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Hexanone	3.1	Not Detected	13	Not Detected
Dibromochloromethane	0.78	Not Detected	6.7	Not Detected
I,2-Dibromoethane (EDB)	0.78	Not Detected	6.0	Not Detected
Chlorobenzene	0.78	Not Detected	3.6	Not Detected
Ethyl Benzene	0.78	Not Detected	3.4	Not Detected
m,p-Xylene	0.78	2.7	3.4	12
o-Xylene	0.78	1.5	3.4	6.8
Styrene	0.78	Not Detected	3.4	Not Detected
Bromoform	0.78	Not Detected	8.1	Not Detected
Cumene	0.78	Not Detected	3.9	Not Detected
1,1,2,2-Tetrachloroethane	0.78	Not Detected	5.4	Not Detected
Propylbenzene	0.78	Not Detected	3.9	Not Detected
4-Ethyltoluene	0.78	4.0	3.9	20
1,3,5-Trimethylbenzene	0.78	2.1	3.9	11
1,2,4-Trimethylbenzene	0.78	7.4	3.9	37
1,3-Dichlorobenzene	0.78	Not Detected	4.7	Not Detected
1,4-Dichlorobenzene	0.78	17	4.7	110
alpha-Chlorotoluene	0.78	Not Detected	4.1	Not Detected
1,2-Dichlorobenzene	0.78	Not Detected	4.7	Not Detected
1,2,4-Trichlorobenzene	3.1	Not Detected	23	Not Detected
Hexachlorobutadiene	3.1	Not Detected	34	Not Detected

UJ = Non-detected compound associated with low bias in the CCV

		method
Surrogates	%Recovery	Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	99	70-130

SAMPLE NAME: 061704-HCC-MSD

ID#: 0406343BR1-03A

निविद्यात्त्वे । भौतिकार्वे क्षेत्रे	3773 2727		ট্রাক্তরপরীজিনিটা ট্রাক্তরপরীজিনিটা	
Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	5.2	Not Detected	26	Not Detected
Freon 114	5.2	Not Detected	37	Not Detected
Chloromethane	21	Not Detected	44	Not Detected
Vinyl Chloride	5.2	Not Detected	14	Not Detected
1,3-Butadiene	5.2	Not Detected	12	Not Detected
Bromomethane	5.2	Not Detected	21	Not Detected
Chloroethane	5.2	Not Detected	14	Not Detected
Freon 11	5.2	Not Detected	30	Not Detected
Ethanol	21	33	40	64
Freon 113	5.2	Not Detected	41	Not Detected
1,1-Dichloroethene	5.2	Not Detected	21	Not Detected
Acetone	21	Not Detected	51	Not Detected
2-Propanol	21	Not Detected	52	Not Detected
Carbon Disulfide	5.2	Not Detected	17	Not Detected
3-Chloropropene	21	Not Detected	67	Not Detected
Methylene Chloride	5.2	Not Detected	18	Not Detected
Methyl tert-butyl ether	5.2	Not Detected U J	19	Not Detected U J
trans-1,2-Dichloroethene	5.2	Not Detected	21	Not Detected
Hexane	5.2	250	19	900
Vinyl Acetate	21	Not Detected	75	Not Detected
1,1-Dichloroethane	5.2	Not Detected	22	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.2	20	16	59
cis-1,2-Dichloroethene	5.2	Not Detected	21	Not Detected
Tetrahydrofuran	5.2	97	16	290
Chloroform	5.2	Not Detected	26	Not Detected
1,1,1-Trichloroethane	5.2	Not Detected	29	Not Detected
Cyclohexane	5.2	220	18	760
Carbon Tetrachloride	5.2	Not Detected	34	Not Detected
2,2,4-Trimethylpentane	5.2	680	25	3200
Benzene	5.2	34	17	110
1,2-Dichloroethane	5.2	Not Detected	22	Not Detected
Heptane	5.2	11	22	44
Trichloroethene	5.2	Not Detected	29	Not Detected
1,2-Dichloropropane	5.2	Not Detected	25	Not Detected
1,4-Dioxane	21	Not Detected	77	Not Detected
Bromodichloromethane	5.2	Not Detected	36	Not Detected
cis-1,3-Dichloropropene	5.2	Not Detected	24	Not Detected
4-Methyl-2-pentanone	5.2	Not Detected	22	Not Detected
Toluene	5.2	Not Detected	20	Not Detected
trans-1,3-Dichloropropene	5.2	Not Detected	24	Not Detected
1,1,2-Trichloroethane	5.2	Not Detected	29	Not Detected
Tetrachloroethene	5.2	Not Detected	36	Not Detected

SAMPLE NAME: 061704-HCC-MSD

ID#: 0406343BR1-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

441.511.65 4.15.45 4.1			serie of anticolor seeds as to at		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
2-Hexanone	21	Not Detected	87	Not Detected	
Dibromochloromethane	5.2	Not Detected	45	Not Detected	
1,2-Dibromoethane (EDB)	5.2	Not Detected	41	Not Detected	
Chlorobenzene	5.2	Not Detected	24	Not Detected	
Ethyl Benzene	5.2	Not Detected	23	Not Detected	
m,p-Xylene	5.2	Not Detected	23	Not Detected	
o-Xylene	5.2	Not Detected	23	Not Detected	
Styrene	5.2	Not Detected	23	Not Detected	
Bromoform	5.2	Not Detected	55	Not Detected	
Cumene	5.2	Not Detected	26	Not Detected	
1,1,2,2-Tetrachloroethane	5.2	Not Detected	37	Not Detected	
Propylbenzene	5.2	Not Detected	26	Not Detected	
4-Ethyltoluene	5.2	Not Detected	26	Not Detected	
1,3,5-Trimethylbenzene	5.2	Not Detected	26	Not Detected	
1,2,4-Trimethylbenzene	5.2	Not Detected	26	Not Detected	
1,3-Dichlorobenzene	5.2	Not Detected	32	Not Detected	
1,4-Dichlorobenzene	5.2	30	32	180	
alpha-Chlorotoluene	5.2	Not Detected	28	Not Detected	
1,2-Dichlorobenzene	5.2	Not Detected	32	Not Detected	
1,2,4-Trichlorobenzene	21	Not Detected	160	Not Detected	
Hexachlorobutadiene	21	Not Detected	230	Not Detected	

UJ = Non-detected compound associated with low bias in the CCV

		Method
Surrogates	%Recovery	Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	114	70-130
4-Bromofluorobenzene	97	70-130

SAMPLE NAME: Lab Blank ID#: 0406343BR1-04A

alfanton) Die Borgo	1/10#370 7 : Fui		ন্ত্ৰিকৈইউঠানুন্ত্ৰিন নিন্তু কিইডুচাগুলুকুন্তু	1. A. S.
	Rot. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.6	Not Detected
Chloromethane	2.0	Not Detected	4.2	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	2.0	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanoi	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.9	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	5.0	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.4	Not Detected
Methylene Chloride	0.50	Not Detected	1.8	Not Detected
Methyl tert-butyl ether	0.50	Not Detected U J	1.8	Not Detected U J
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
Vinyl Acetate	2.0	Not Detected	7.2	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.5	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.8	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.2	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.4	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.1	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.3	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.1	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.8	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected

SAMPLE NAME: Lab Blank ID#: 0406343BR1-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

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	A STATE OF THE STA		Principal in a	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Hexanone	2.0	Not Detected	8.3	Not Detected
Dibromochloromethane	0.50	Not Detected	4.3	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.9	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.2	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.5	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.5	Not Detected
Propylbenzene	0.50	Not Detected	2.5	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.5	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	22	Not Detected

UJ = Non-detected compound associated with low bias in the CCV

Container Type: NA - Not Applicable

		Method
Surrogates	%Recovery	Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	98	70-130

SAMPLE NAME: CCV ID#: 0406343BR1-05A

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Compound	%Recovery
Freon 12	80
Freon 114	93
Chloromethane	106
Vinyl Chloride	84
1,3-Butadiene	88
Bromomethane	104
Chloroethane	95
Freon 11	85
Ethanol	103
Freon 113	75
1,1-Dichloroethene	82
Acetone	96
2-Propanol	115
Carbon Disulfide	82
3-Chloropropene	100
Methylene Chloride	102
Methyl tert-butyl ether	68 Q
trans-1,2-Dichloroethene	76
Hexane	87
Vinyl Acetate	100
1,1-Dichloroethane	84
2-Butanone (Methyl Ethyl Ketone)	86
cis-1,2-Dichloroethene	86
Tetrahydrofuran	91
Chloroform	76
1,1,1-Trichloroethane	83
Cyclohexane	78
Carbon Tetrachloride	95
2,2,4-Trimethylpentane	88
Benzene	78
1,2-Dichloroethane	82
Heptane	77
Trichloroethene	76
1,2-Dichloropropane	86
1,4-Dioxane	89
Bromodichloromethane	85
cis-1,3-Dichloropropene	84
4-Methyl-2-pentanone	98
Toluene	77
trans-1,3-Dichloropropene	89
1,1,2-Trichloroethane	77
Tetrachloroethene	73

SAMPLE NAME: CCV ID#: 0406343BR1-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

ribuon: Augustos Augustos

Compound	%Recovery
2-Hexanone	107
Dibromochloromethane	88
1,2-Dibromoethane (EDB)	80
Chlorobenzene	76
Ethyl Benzene	76
m,p-Xylene	73
o-Xylene	77
Styrene	79
Bromoform	91
Cumene	79
1,1,2,2-Tetrachloroethane	83
Propylbenzene	84
4-Ethyltoluene	81
1,3,5-Trimethylbenzene	77
1,2,4-Trimethylbenzene	79
1,3-Dichlorobenzene	75
1,4-Dichlorobenzene	75
alpha-Chlorotoluene	88
1,2-Dichlorobenzene	73
1,2,4-Trichlorobenzene	75
Hexachlorobutadiene	71

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

 Surrogates
 %Recovery
 Method Limits

 Toluene-d8
 100
 70-130

 1,2-Dichloroethane-d4
 111
 70-130

 4-Bromofluorobenzene
 100
 70-130

SAMPLE NAME: LCS

ID#: 0406343BR1-06A

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	Activities of the state of the

Compound	%Recovery
Freon 12	76
Freon 114	91
Chloromethane	100
Vinyl Chloride	84
1,3-Butadiene	89
Bromomethane	91
Chloroethane	131 Q
Freon 11	83
Ethanol	135
Freon 113	78
1,1-Dichloroethene	82
Acetone	101
2-Propanol	102
Carbon Disulfide	87
3-Chioropropene	90
Methylene Chloride	96
Methyl tert-butyl ether	86
trans-1,2-Dichloroethene	81
Hexane	95
Vinyl Acetate	109
1,1-Dichloroethane	96
2-Butanone (Methyl Ethyl Ketone)	94
cis-1,2-Dichloroethene	76
Tetrahydrofuran	102
Chloroform	83
1,1,1-Trichloroethane	95
Cyclohexane	88
Carbon Tetrachloride	105
2,2,4-Trimethylpentane	81
Benzene	84
1,2-Dichloroethane	96
Heptane	84
Trichloroethene	86
1,2-Dichloropropane	105
1,4-Dioxane	103
Bromodichloromethane	90
cis-1,3-Dichloropropene	102
4-Methyl-2-pentanone	114
Toluene	76
trans-1,3-Dichloropropene	105
1,1,2-Trichloroethane	80
Tetrachloroethene	76

SAMPLE NAME: LCS ID#: 0406343BR1-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

STEANT CONTROL STATE OF THE STA

Compound	%Recovery
2-Hexanone	126
Dibromochloromethane	93
1,2-Dibromoethane (EDB)	84
Chlorobenzene	78
Ethyl Benzene	74
m,p-Xylene	74
o-Xylene	78
Styrene	87
Bromoform	92
Cumene	76
1,1,2,2-Tetrachloroethane	86
Propylbenzene	59 Q
4-Ethyltoluene	84
1,3,5-Trimethylbenzene	79
1,2,4-Trimethylbenzene	81
1,3-Dichlorobenzene	77
1,4-Dichlorobenzene	76
alpha-Chlorotoluene	129
1,2-Dichlorobenzene	74
1,2,4-Trichlorobenzene	84
Hexachlorobutadiene	90

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

		method
Surrogates	%Recovery	Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	99	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0406343C

Work Order Summary

CLIENT:

Ms. Robin Schilling

Warrenville, IL 60555

BILL TO:

Ms. Robin Schilling

ENSR

27755 Diehl Road

C1101(

27755 Diehl Road

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P.O. # 2017826

FAX:

630-836-1711

PROJECT#

01005.093.360 Hartford, IL Hartford

DECEME

DATE RECEIVED:

6/18/04

ENSR

Suite 100

CONTACT:

Community Center DeDe Dodge

DATE COMPLETED:

6/30/04

			RECEIFI
FRACTION#	NAME	TEST	YAC./PRES.
01A	061704-HCC-Outside West	Modified TO-15	5.5 "Hg
02A	061704-HCC-WFD	Modified TO-15	4.0 "Hg
03A	061704-HCC-MSD	Modified TO-15	4.5 "Hg
04A	Lab Blank	Modified TO-15	NA
05A	CCV	Modified TO-15	NA

CERTIFIED BY:

DATE: 06/30/04

Laboratory Director

Certification numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000. (800) 985-5955. FAX (916) 985-1020

LABORATORY NARRATIVE Ozone Precursors by Modified TO-15 ENSR Workorder# 0406343C

Three 6 Liter Summa Canister samples were received on June 18, 2004. The laboratory performed analysis for Ozone Precursors via Modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	TO-15	ATL Modifications	
BFB acceptance criteria	CLP protocol	SW-846 protocol	
IS Recoveries	60- 140% of mean over ICAL for blanks, and w/in 60- 140% of daily CCV for samples.	Within 60-140% of CCV recoveries for blank and samples.	
Dilutions for initial calibration	Dynamic dilutions or static using canisters	Syringe dilutions	
Daily CCV	70 - 130 %	60-140% for 90% of the target compounds	
Concentration of IS spike	10 ppbv	25 ppbv	
Concentration of IS spike	10 ppbv	25 ppbv	

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The reported CCV for each daily batch may be derived from more than one individual analytical file due to the client's request for non-standard compounds.

Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

Specific analytes that are requested by the client to be reported as tentatively identified compounds (TICs) are determined by searching for each compound's characteristic spectra. If no chromatographic peak displaying the compound specific spectra exists, then the TIC is reported as not detected. Please note that the laboratory has not evaluated the stability of any heretofore tentatively identified compound in the vapor phase or for efficiency of recovery through the analytical system.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit(background subtraction no performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.

- S Saturated peak.
- Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the reporting limit.
- N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue

SAMPLE NAME: 061704-HCC-Outside West

ID#: 0406343C-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

MODIFIED ELA MIDITIOD TO 13 COMO 1 CED CAN				
Alta Maria		and the second of the second	Dingkaniyasiya	2007 (99) 2007 (99)
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Benzene	0.82	Not Detected	2.7	Not Detected
Ethyl Benzene	0.82	Not Detected	3.6	Not Detected
Styrene	0.82	Not Detected	3.5	Not Detected
Toluene	0.82	Not Detected	3.1	Not Detected
1,2,4-Trimethylbenzene	0.82	Not Detected	4.1	Not Detected
1,3,5-Trimethylbenzene	0.82	Not Detected	4.1	Not Detected
m,p-Xylene	0.82	Not Detected	3.6	Not Detected
o-Xylene	0.82	Not Detected	3.6	Not Detected
Butane	3.3	Not Detected	7.9	Not Detected
1-Butene	3.3	Not Detected	7.6	Not Detected
cis-2-Butene	3.3	Not Detected	7.6	Not Detected
trans-2-butene	3.3	Not Detected	7.6	Not Detected
Cyclohexane	3.3	Not Detected	11	Not Detected
Cyclopentane	3.3	Not Detected	9.6	Not Detected
2,2-Dimethylbutane	3.3	Not Detected	12	Not Detected
2,3-Dimethylbutane	3.3	Not Detected	12	Not Detected
2,3-Dimethylpentane	3.3	Not Detected	14	Not Detected
2,4-Dimethylpentane	3.3	Not Detected	14	Not Detected
Heptane	3.3	Not Detected	14	Not Detected
Hexane	3.3	Not Detected	12	Not Detected
Isoprene	3.3	Not Detected	9.3	Not Detected
Cumene	3.3	Not Detected	16	Not Detected
Isopentane	3.3	3.6	9.8	11
Methylcyclohexane	3.3	Not Detected	13	Not Detected
Methylcyclopentane	3.3	Not Detected	11	Not Detected
2-Methylheptane	3.3	Not Detected	16	Not Detected
3-Methylheptane	3.3	Not Detected	16	Not Detected
2-Methylhexane	3.3	Not Detected	14	Not Detected
3-Methylhexane	3.3	Not Detected	14	Not Detected
2-Methylpentane	3.3	Not Detected	12	Not Detected
3-Methylpentane	3.3	Not Detected	12	Not Detected
Isobutane	3.3	Not Detected	7.9	Not Detected
Nonane	3.3	Not Detected	17	Not Detected
Octane	3.3	Not Detected	16	Not Detected
Pentane	3.3	Not Detected	9.8	Not Detected
1-Pentene	3.3	Not Detected	9.6	Not Detected
cis-2-Pentene	3.3	Not Detected	9.6	Not Detected
trans-2-Pentene	3.3	Not Detected	9.6	Not Detected
Propylbenzene	3.3	Not Detected	16	Not Detected
2,2,4-Trimethylpentane	3.3	Not Detected	16	Not Detected
2,3,4-Trimethylpentane	3.3	Not Detected	16	Not Detected
1-Hexene	3.3	Not Detected	11	Not Detected

SAMPLE NAME: 061704-HCC-Outside West

ID#: 0406343C-01A

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film for the film of the control of	Agents Agents of the second	الله الما الله الله الله الله الله الله	Patrachampian, Act.	<u> </u>
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
3-Ethyltoluene	3.3	Not Detected	16	Not Detected
1-Ethyltoluene	3.3	Not Detected	16	Not Detected
2-Ethyltoluene	3.3	Not Detected	16	Not Detected
Decane	3.3	Not Detected	19	Not Detected
1,2,3-Trimethylbenzene	3.3	Not Detected	16	Not Detected
I,3-Diethylbenzene	3.3	Not Detected	18	Not Detected
1,4-Diethylbenzene	3.3	Not Detected	18	Not Detected
Jndecane	3.3	Not Detected	21	Not Detected
cis-2-Hexene	8.2	Not Detected	29	Not Detected
rans-2-Hexene	8.2	Not Detected	29	Not Detected
alpha-Pinene	8.2	Not Detected	46	Not Detected
peta-Pinene	8.2	Not Detected	46	Not Detected
Cyclopentene	3.3	Not Detected	9.3	Not Detected
1-Undecene	8.2	Not Detected	52	Not Detected
1-Decene	8.2	Not Detected	48	Not Detected
1-Nonene	3.3	Not Detected	17	Not Detected
1-Octene	3.3	Not Detected	15	Not Detected
1-Heptene	3.3	Not Detected	13	Not Detected
1,3-Butadiene	0.82	Not Detected	1.8	Not Detected
	TENTATIVELY IDEN	ITIFIED COMPOUNDS		
				Amount
Compound		CAS Number	Match Quality	ppbv
Dodecane		112-40-3	70%	4.2
1-Dodecene		112-41-4	NA	Not Detected
Tridecane		629-50-5	NA	Not Detected
Container Type: 6 Liter Summa Can	ister			DO all and
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		113		70-130
Toluene-d8		101		70-130
4-Bromofluorobenzene		100		70-130

SAMPLE NAME: 061704-HCC-WFD

ID#: 0406343C-02A

30) 2.670a	(2013)	Daty and the second sec		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	16	18	50	58
Ethyl Benzene	16	Not Detected	68	Not Detected
Styrene	16	Not Detected	67	Not Detected
Toluene	16	Not Detected	59	Not Detected
1,2,4-Trimethylbenzene	16	Not Detected	77	Not Detected
1,3,5-Trimethylbenzene	16	Not Detected	77	Not Detected
m,p-Xylene	16	Not Detected	68	Not Detected
o-Xylene	16	Not Detected	68	Not Detected
Butane	62	1600	150	3900
1-Butene	62	Not Detected	140	Not Detected
cis-2-Butene	62	Not Detected	140	Not Detected
trans-2-butene	62	Not Detected	140	Not Detected
Cyclohexane	62	Not Detected	220	Not Detected
Cyclopentane	62	Not Detected	180	Not Detected
2,2-Dimethylbutane	62	Not Detected	220	Not Detected
2,3-Dimethylbutane	62	160	220	590
2,3-Dimethylpentane	62	77	260	320
2,4-Dimethylpentane	62	Not Detected	260	Not Detected
Heptane	62	Not Detected	260	Not Detected
Hexane	62	Not Detected	220	Not Detected
Isoprene	62	Not Detected	180	Not Detected
Cumene	62	Not Detected	310	Not Detected
Isopentane	62	3000	180	9100
Methylcyclohexane	62	Not Detected	250	Not Detected
Methylcyclopentane	62	93	220	330
2-Methylheptane	62	Not Detected	290	Not Detected
3-Methylheptane	62	Not Detected	290	Not Detected
2-Methylhexane	62	Not Detected	260	Not Detected
3-Methylhexane	62	Not Detected	260	Not Detected
2-Methylpentane	62	280	220	1000
	62	230	220	830
3-Methylpentane	62	850	150	2100
Isobutane Nonane	62	Not Detected	330	Not Detected
Nonane	62	Not Detected	290	Not Detected
Octane	62	610	180	1800
Pentane 4 Bantona	······································	_		·
1-Pentene	62	Not Detected	180	Not Detected
cis-2-Pentene	62	120	180	340
trans-2-Pentene	62	Not Detected	180	Not Detected
Propylbenzene	62	Not Detected	310	Not Detected
2,2,4-Trimethylpentane	62	66	290	310
2,3,4-Trimethylpentane	62	Not Detected	290	Not Detected
1-Hexene	62	Not Detected	220	Not Detected

SAMPLE NAME: 061704-HCC-WFD

ID#: 0406343C-02A

HENTO De Zon	500345() (300		ding kadusus sedi Pingkadusus sedi	\$20 (10年) [1]
Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
3-Ethyltoluene	62	Not Detected	310	Not Detected
4-Ethyltoluene	62	Not Detected	310	Not Detected
2-Ethyltoluene	62	Not Detected	310	Not Detected
Decane	62	Not Detected	370	Not Detected
1,2,3-Trimethylbenzene	62	Not Detected	310	Not Detected
1,3-Diethylbenzene	62	Not Detected	340	Not Detected
1,4-Diethylbenzene	62	Not Detected	340	Not Detected
Undecane	62	Not Detected	400	Not Detected
cis-2-Hexene	160	Not Detected	540	Not Detected
trans-2-Hexene	160	Not Detected	540	Not Detected
alpha-Pinene	160	Not Detected	880	Not Detected
beta-Pinene	160	Not Detected	880	Not Detected
Cyclopentene	62	Not Detected	180	Not Detected
1-Undecene	160	Not Detected	990	Not Detected
1-Decene	160	Not Detected	900	Not Detected
1-Nonene	62	Not Detected	320	Not Detected
1-Octene	62	Not Detected	290	Not Detected
1-Heptene	62	Not Detected	250	Not Detected
1,3-Butadiene	16	Not Detected	35	Not Detected
	TENTATIVELY IDEN	ITIFIED COMPOUNDS		
				Amount
Compound		CAS Number	Match Quality	ppbv
Dodecane		112-40-3	41%	320
Tridecane		629-50-5	70%	4300
1-Dodecene		112-41-4	NA	Not Detected
Container Type: 6 Liter Summa Cani	ster			Massa -
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		111		70-130
Toluene-d8		100		70-130
4-Bromofluorobenzene		101		70-130

SAMPLE NAME: 061704-HCC-MSD

1D#: 0406343C-03A

Patrichtus Discense	\$630 PM	The Tender	টিটা চার্টি প্রোটিনালন প্রতিষ্ঠিত বর্মকার্টির ইন	na ka
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
	210	Not Detected	680	Not Detected
Benzene	210	Not Detected	930	Not Detected
Ethyl Benzene	210	Not Detected	910	Not Detected
Styrene	210	Not Detected	810	Not Detected
Foluene	210	Not Detected	1000	Not Detected
1,2,4-Trimethylbenzene	210	Not Detected	1000	Not Detected
I,3,5-Trimethylbenzene	210	Not Detected	930	Not Detected
n,p-Xylene	210	Not Detected	930	Not Detected
o-Xylene	840	12000	2000	28000
Butane I-Butene	840	Not Detected	2000	Not Detected
	840	Not Detected	2000	Not Detected
cis-2-Butene	840	Not Detected	2000	Not Detected
rans-2-butene	840	Not Detected	2900	Not Detected
Cyclohexane	840	Not Detected	2400	Not Detected
Cyclopentane	840	Not Detected	3000	Not Detected
2,2-Dimethylbutane		1800	3000	6400
2,3-Dimethylbutane	840	840	3500	3500
2,3-Dimethylpentane	840			Not Detected
2,4-Dimethylpentane	840	Not Detected	3500	Not Detected
Heptane	840	Not Detected	3500	
Hexane	840	Not Detected	3000	Not Detected
soprene	840	Not Detected	2400	Not Detected
Cumene	840	Not Detected	4200	Not Detected
sopentane	840	34000	2500	100000
Methylcyclohexane	840	Not Detected	3400	Not Detected
Methylcyclopentane	840	Not Detected	2900	Not Detected
2-Methylheptane	840	Not Detected	4000	Not Detected
3-Methylheptane	840	Not Detected	4000	Not Detected
2-Methylhexane	840	Not Detected	3500	Not Detected
3-Methylhexane	840	Not Detected	3500	Not Detected
2-Methylpentane	840	2800	3000	9900
3-Methylpentane	840	2000	3000	7300
Isobutane	840	8400	2000	20000
Nonane	840	Not Detected	4500	Not Detected
Octane	840	Not Detected	4000	Not Detected
Pentane	840	4200	2500	12000
1-Pentene	840	Not Detected	2400	Not Detected
cis-2-Pentene	840	Not Detected	2400	Not Detected
trans-2-Pentene	840	Not Detected	2400	Not Detected
Propylbenzene	840	Not Detected	4200	Not Detected
2,2,4-Trimethylpentane	840	Not Detected	4000	Not Detected
2,3,4-Trimethylpentane	840	Not Detected	4000	Not Detected
1-Hexene	840	Not Detected	2900	Not Detected

SAMPLE NAME: 061704-HCC-MSD

1D#: 0406343C-03A

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	and the second of the second o	The second secon	not bound	Birthings Y
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
3-Ethyltoluene	840	Not Detected	4200	Not Detected
1-Ethyltoluene	840	Not Detected	4200	Not Detected
2-Ethyltoluene	840	Not Detected	4200	Not Detected
Decane	840	Not Detected	5000	Not Detected
1,2,3-Trimethylbenzene	840	Not Detected	4200	Not Detected
1,3-Diethylbenzene	840	Not Detected	4700	Not Detected
1,4-Diethylbenzene	840	Not Detected	4700	Not Detected
Undecane	840	Not Detected	5500	Not Detected
cis-2-Hexene	2100	Not Detected	7400	Not Detected
trans-2-Hexene	2100	Not Detected	7400	Not Detected
alpha-Pinene	2100	Not Detected	12000	Not Detected
beta-Pinene	2100	Not Detected	12000	Not Detected
Cyclopentene	840	Not Detected	2400	Not Detected
1-Undecene	2100	Not Detected	13000	Not Detected
1-Decene	2100	Not Detected	12000	Not Detected
1-Nonene	840	Not Detected	4400	Not Detected
1-Octene	840	Not Detected	3900	Not Detected
1-Heptene	840	Not Detected	3400	Not Detected
1,3-Butadiene	210	Not Detected	470	Not Detected
	TENTATIVELY IDEN	ITIFIED COMPOUNDS		
				Amount
Compound		CAS Number	Match Quality	ppbv
Dodecane		112-40-3	NA	Not Detected
1-Dodecene		112-41-4	NA	Not Detected
Tridecane		629-50-5	NA	Not Detected
Container Type: 6 Liter Summa	Canister			
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		110		70-130
Toluene-d8		101		70-130
4-Bromofluorobenzene		102		70-130

SAMPLE NAME: Lab Blank

ID#: 0406343C-04A

Fifth Dans	EL333		Dan ekserner i		
			Dan Harris		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
Benzene	0.50	Not Detected	1.6	Not Detected	
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected	
Styrene	0.50	Not Detected	2.2	Not Detected	
Toluene	0.50	Not Detected	1.9	Not Detected	
1,2,4-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected	
1,3,5-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected	
n,p-Xylene	0.50	Not Detected	2.2	Not Detected	
o-Xylene	0.50	Not Detected	2.2	Not Detected	
Butane	2.0	Not Detected	4.8	Not Detected	
1-Butene	2.0	Not Detected	4.7	Not Detected	
cis-2-Butene	2.0	Not Detected	4.7	Not Detected	
trans-2-butene	2.0	Not Detected	4.7	Not Detected	
Cyclohexane	2.0	Not Detected	7.0	Not Detected	
Cyclopentane	2.0	Not Detected	5.8	Not Detected	
2,2-Dimethylbutane	2.0	Not Detected	7.2	Not Detected	
2,3-Dimethylbutane	2.0	Not Detected	7.2	Not Detected	
2,3-Dimethylpentane	2.0	Not Detected	8.3	Not Detected	
2,4-Dimethylpentane	2.0	Not Detected	8.3	Not Detected	
Heptane	2.0	Not Detected	8.3	Not Detected	
Hexane	2.0	Not Detected	7.2	Not Detected	
Isoprene	2.0	Not Detected	5.7	Not Detected	
Cumene	2.0	Not Detected	10	Not Detected	
Isopentane	2.0	Not Detected	6.0	Not Detected	
Methylcyclohexane	2.0	Not Detected	8.2	Not Detected	
Methylcyclopentane	2.0	Not Detected	7.0	Not Detected	
2-Methylheptane	2.0	Not Detected	9.5	Not Detected	
3-Methylheptane	2.0	Not Detected	9.5	Not Detected	
2-Methylhexane	2.0	Not Detected	8.3	Not Detected	
3-Methylhexane	2.0	Not Detected	8.3	Not Detected	
2-Methylpentane	2.0	Not Detected	7.2	Not Detected	
3-Methylpentane	2.0	Not Detected	7.2	Not Detected	
Isobutane	2.0	Not Detected	4.8	Not Detected	
Nonane	2.0	Not Detected	11	Not Detected	
Octane	2.0	Not Detected	9.5	Not Detected	
Pentane	2.0	Not Detected	6.0	Not Detected	
1-Pentene	2.0	Not Detected	5.8	Not Detected	
cis-2-Pentene	2.0	Not Detected	5.8	Not Detected	
trans-2-Pentene	2.0	Not Detected	5.8	Not Detected	
Propylbenzene	2.0	Not Detected	10	Not Detected	
2,2,4-Trimethylpentane	2.0	Not Detected	9.5	Not Detected	
2,3,4-Trimethylpentane	2.0	Not Detected	9.5	Not Detected	
1-Hexene	2.0	Not Detected	7.0	Not Detected	

SAMPLE NAME: Lab Blank

1D#: 0406343C-04A

Frysland Politica	5033 () (104		Duráledizskości Dypalackyczego	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
3-Ethyltoluene	2.0	Not Detected	10	Not Detected
4-Ethyltoluene	2.0	Not Detected	10	Not Detected
2-Ethyltoluene	2.0	Not Detected	10	Not Detected
Decane	2.0	Not Detected	12	Not Detected
1,2,3-Trimethylbenzene	2.0	Not Detected	10	Not Detected
1,3-Diethylbenzene	2.0	Not Detected	11	Not Detected
1,4-Diethylbenzene	2.0	Not Detected	11	Not Detected
Undecane	2.0	Not Detected	13	Not Detected
cis-2-Hexene	5.0	Not Detected	17	Not Detected
trans-2-Hexene	5.0	Not Detected	17	Not Detected
alpha-Pinene	5.0	Not Detected	28	Not Detected
beta-Pinene	5.0	Not Detected	28	Not Detected
Cyclopentene	2.0	Not Detected	5.7	Not Detected
1-Undecene	5.0	Not Detected	32	Not Detected
1-Decene	5.0	Not Detected	29	Not Detected
1-Nonene	2.0	Not Detected	10	Not Detected
1-Octene	2.0	Not Detected	9.3	Not Detected
1-Heptene	2.0	Not Detected	8.2	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
	TENTATIVELY IDEN	TIFIED COMPOUNDS		
Compound		CAS Number	Match Quality	Amount ppbv
Dodecane		112-40-3	NA	Not Detected
1-Dodecene		112-41-4	NA	Not Detected
Tridecane		629-50-5	NA	Not Detected
Container Type: NA - Not Applicable				
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		109		70-130
Toluene-d8		100		70-130
4-Bromofluorobenzene		100		70-130

SAMPLE NAME: CCV

1D#: 0406343C-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

and and the Establishment of the second

333270

Compound	%Recovery
Benzene	98
Ethyl Benzene	99
Styrene	105
Toluene	98
1,2,4-Trimethylbenzene	111
1,3,5-Trimethylbenzene	111
m,p-Xylene	102
o-Xylene	101
Butane	101
1-Butene	89
cis-2-Butene	103
trans-2-butene	103
Cyclohexane	102
Cyclopentane	98
2,2-Dimethylbutane	99
2,3-Dimethylbutane	95
2,3-Dimethylpentane	98
2,4-Dimethylpentane	100
Heptane	96
Hexane	92
Isoprene	104
Cumene	111
Isopentane	99
Methylcyclohexane	100
Methylcyclopentane	95
2-Methylheptane	98
3-Methylheptane	99
2-Methylhexane	101
3-Methylhexane	102
2-Methylpentane	92
3-Methylpentane	91
Isobutane	109
Nonane	100
Octane	95
Pentane	97
1-Pentene	102
cis-2-Pentene	100
trans-2-Pentene	100
Propylbenzene	119
2,2,4-Trimethylpentane	99
2,3,4-Trimethylpentane	98
1-Hexene	93

SAMPLE NAME: CCV 1D#: 0406343C-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN



Compound	%Recovery
3-Ethyltoluene	120
4-Ethyltoluene	114
2-Ethyltoluene	116
Decane	102
1,2,3-Trimethylbenzene	118
1,3-Diethylbenzene	114
1,4-Diethylbenzene	113
Undecane	112
cis-2-Hexene	102
trans-2-Hexene	98
alpha-Pinene	100
beta-Pinene	114
Cyclopentene	97
1-Undecene	83
1-Decene	117
1-Nonene	95
1-Octene	98
1-Heptene	99
1,3-Butadiene	109

Container Type: NA - Not Applicable

		Method	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	103	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	104	70-130	

(a) AIR TOXICS LTD. AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing agnitudes on this document indicates that schoole is being shipped in compliance FOLSOM. CA 95630-4719
with all applicable focal, State, Federal, inclinations, favor, regulations and (918) 985-1000 FAX; (916) 985-1020 ordinavose of any kind. Air Toxics Limited assumes no Lability with respect to the collection.

handing or shipping of these samples. Reinquishing signature also indicates agreement to haid harmbas, defend, and incemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, nandling, or shipping of sumples, 0.0.7. Hotline (800) 467-4922

Page

180 BLUE RAVINE ROAD, SUITE B.

オフの 4.5.49 Cer 1292 114.06 5.5 49 Canister Pressure / Vacuum Peceip のよって None 20406343 ていましまる Work Order # Specify -3.0 -3.0 Turn Around Time: うかい Normal N _ Rush . S 87. In idad 129.0 - 28.6 AND TRACK WOULD D. BZ. AC per street Custody Seals Intacl? ADD OKERT , CARON DIOXIGE ş Meta To it chiamely somula posted & Project # 01005-093 : 550 Project Name Hackschib It THE TENTO 182- | rether oragin , cales Diozde ¥ ** Notes: SA 1946 Analyses Requested Condition Project info: P.O. #__ でなり Тещр. (*С) न THE CINTHOSSIBLE SPATE ZO ATC 61804 Pezeived By: (Signature) Sena-Time Leg: (Schaller Desertant Opened By Harison 12 ST 1425 - 154 68.83 Date & Time るころなら 261704 - 1412 - DUSION WEST CALIFOR 7 54 <u>:</u> Schillide FAX Air Bill # Calke Field Sample I.D. **多に3-12-12**0 1304-14C - 1952 35 (3C) Re inquished By: (Signet are) DetaTind Contact Person Robin Shipper Name となべ SASA Callected By: Signame FEREN Company — Phone _ \$ gge gee **₹ ₹**



WORK ORDER #: 0406343D

Work Order Summary

CLIENT:

Ms. Robin Schilling

BILL TO: Ms. Robin Schilling

ENSR

ENSR 27755 Diehl Road

27755 Diehl Road Suite 100

Suite 100

Warrenville, IL 60555

Warrenville, IL 60555

PHONE:

630-836-1700

2017826 P.O. #

FAX:

630-836-1711

PROJECT#

01005.093.360 Hartford, IL Hartford

DATE RECEIVED:

06/18/04

CONTACT:

Community Center DeDe Dodge

DATE COMPLETED:

07/02/04

			RECEIPT
FRACTION #	<u>NAME</u>	<u>TEST</u>	VAC./PRES.
01A	061704-HCC-Outside West	Air Toxics Ltd. @ 82	5.5 "Hg
02A	061704-HCC-WFD	Air Toxics Ltd. @ 82	4.0 "Hg
03A	061704-HCC-MSD	Air Toxics Ltd. @ 82	4.5 "Hg
03AA	061704-HCC-MSD Duplicate	Air Toxics Ltd. @ 82	4.5 "Hg
04A	Lab Blank	Air Toxics Ltd. @ 82	NA
05A	LCS	Air Toxics Ltd. @ 82	NA

CERTIFIED BY:

Laboratory Director

Sinda d. Fruman

DATE: 07/02/04

LABORATORY NARRATIVE Air Toxics Ltd @82 ENSR Workorder# 0406343D

Three 6 Liter Summa Canister samples were received on June 18, 2004. The laboratory performed analysis for Ethane, Ethene, Acetylene, Propane and Propylene via Air Toxics Limited Method @82. This method describes direct injection of up to 40 mL of sample followed by GC/FID. See the data sheets for the reporting limit for each compound.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

- B Compound present in laboratory blank greater than reporting limit.
- J Estimated value.
- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the detection limit.
- M Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue

SAMPLE NAME: 061704-HCC-Outside West

ID#: 0406343D-01A AIR TOXICS LTD. @ 82 GC/FID

图: 美 族的人 化共產 346	73 0300		kuru yayak ku ji masak in masa k Lingga ka ku ya ga ka ya ka ya ka ya ka ka masa ka ili	
Compound		Rpt. Limit (ppbv)	Amount (ppbv)	
Ethane	· · · · · · · · · · · · · · · · · · ·	82	Not Detected	
Ethene		82	Not Detected	
Acetylene		82	Not Detected	
Propane		82	Not Detected	
Propylene		82	Not Detected	

SAMPLE NAME: 061704-HCC-WFD

ID#: 0406343D-02A AIR TOXICS LTD. @ 82 GC/FID

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	
Ethane	78	130	
Ethene	78	Not Detected	
Acetylene	78	Not Detected	
Propane	78	510	
Propylene	 78	290	

SAMPLE NAME: 061704-HCC-MSD

ID#: 0406343D-03A

AIR TOXICS LTD. @ 82 GC/FID

Trans.	250.540		Paragraphic states and the states of the sta	
Compound		Rpt. Limit (ppbv)	Amount (ppbv)	
Ethane		79	240	
Ethene		79	Not Detected	
Acetylene		79	Not Detected	
Propane		79	94	
Propylene		79	Not Detected	

SAMPLE NAME: 061704-HCC-MSD Duplicate

ID#: 0406343D-03AA AIR TOXICS LTD. @ 82 GC/FID

有力を対	39.42.		BABA A BABABA BARAKA	
Compound				
		Rpt. Limit (ppbv)	Amount (ppbv)	
Ethane		79	240	
Ethene		79	Not Detected	
Acetylene		79	Not Detected	
Propane		79	88	
Propylene		79	Not Detected	

SAMPLE NAME: Lab Blank ID#: 0406343D-04A AIR TOXICS LTD. @ 82 GC/FID

rāng villāra i Burum Bellu	3) 323	Provide State of the State of t		
Compound		Rpt. Limit (ppbv)	Amount (ppbv)	
Ethane		50	Not Detected	
Ethene		50	Not Detected	
Acetylene		50	Not Detected	
Propane		50	Not Detected	
Propylene		50	Not Detected	

Container Type: NA - Not Applicable

SAMPLE NAME: LCS ID#: 0406343D-05A AIR TOXICS LTD. @ 82 GC/FID

Parties Parties State of the St

Compound	%Recovery
Ethane	105
Ethene	109
Acetylene	117
Propane	97
Propylene	103

Container Type: NA - Not Applicable

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Reliquishing signature on this document indicates that sample is being stipped in compliance FOLSON, CA 95630-4719
with all oppicable local, State, Federal, Actional, and international laws, regulations and (916) 985-1000 FAX: (916) 985-1020 ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection,

handleg or shipping of these samples, Reinquishing cignature also indicates agreement to hold hampless, defend, and indemnify Air Toxics Umited against any claim, demand, or action of any to-in, related to the collection, handling, or shipping of samples, 0.0.7. Hottine (600) 467-4922

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0406343E

Work Order Summary

CLIENT:

Ms. Robin Schilling

BILL TO: Ms. Robin Schilling

27755 Diehl Road

ENSR

27755 Diehl Road

Suite 100

Suite 100 Warrenville, IL 60555

ENSR

Warrenville, IL 60555

PHONE:

630-836-1700

P.O. #

2017826

FAX:

630-836-1711

PROJECT #

01005.093.360 Hartford, IL Hartford

DECEMBE

DATE RECEIVED:

06/18/04

CONTACT:

Community Center De Dodge

06/29/04 DATE COMPLETED:

			RECEIPI
FRACTION#	NAME	TEST	VAC./PRES.
01A	061704-HCC-Outside West	Modified ASTM D-1946	5.5 "Hg
02A	061704-HCC-WFD	Modified ASTM D-1946	4.0 "Hg
03A	061704-HCC-MSD	Modified ASTM D-1946	4.5 "Hg
04A	Lab Blank	Modified ASTM D-1946	NA
05A	LCS	Modified ASTM D-1946	NA

CERTIFIED BY:

Sinda d. Fruman

07/02/04 DATE:

Laboratory Director

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- Al 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE Modified ASTM D-1946 ENSR

Workorder# 0406343E

Three 6 Liter Summa Canister samples were received on June 18, 2004. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample. See the data sheets for the reporting limits for each compound.

Requirement	ASTM D-1946	ATL Modifications
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a >/= 95% accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL (2.0 mL for He and H2) on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 30% RPD for detections > 5 X's the RL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

- B Compound present in laboratory blank greater than reporting limit.
- J Estimated value.
- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the detection limit.
- M Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue

SAMPLE NAME: 061704-HCC-Outside West

ID#: 0406343E-01A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

POTE		ENERGY DESTRUCTION OF THE CONTRACT OF THE CONT
Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	20
Methane	0.00016	0.00021
Carbon Dioxide	0.016	0.038

Container Type: 6 Liter Summa Canister

SAMPLE NAME: 061704-HCC-WFD

ID#: 0406343E-02A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

3037)

A B Comment of the Co	garage spin garage	
Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	20
Methane	0.00016	0.021
Carbon Dioxide	0.016	0.050

Container Type: 6 Liter Summa Canister

SAMPLE NAME: 061704-HCC-MSD

ID#: 0406343E-03A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

	6 - CONTROL OF THE CO. CO. CO.	piterio appropries	
Compound	Rpt. Limit (%)	Amount (%)	
Oxygen	0.16	20	
Methane	0.00016	0.15	
Carbon Dioxide	0.016	0.11	

Container Type: 6 Liter Summa Canister

SAMPLE NAME: Lab Blank

ID#: 0406343E-04A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

(보변 # 2014년) - 연 - 변화(1일) - 10 - 변화(1일)	1955 p	europesa, parka. Guidesaanda eri erikoteka ka ka ka	
Compound	Rpt. Lir (%)		
Oxygen	0.10	Not Detected	
Methane	0.0001	0 Not Detected	
Carbon Dioxide	0.010	Not Detected	

Container Type: NA - Not Applicable

SAMPLE NAME: LCS

ID#: 0406343E-05A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946



Compound	%Recovery
Oxygen	94
Methane	100
Carbon Dioxide	99

Container Type: NA - Not Applicable

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Sample Transportation Notice
Reinquishing sgnature on this document indicates that sample is being \$tipped in compliance FOLSOM, CA 95630-4719
with all applicable local. State, Federal, institutal, and international laws, includations and (915) 965-1000, FAX; (916) 985-1020 ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Reincusting signature also redicates agreement to hold harmless, defend, and indemnify Air Toxics Limited agrees any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples, 0.0.T. Hotline (800) 467-4922. CHAIN-OF-CUSTODY RECORD

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APPENDIX I

AIR TOXICS LTD LABORAOTRY REPORT 0406420						
Field Sample ID Sample Location Description Type/Container Laboratory Sample ID Analysis Method						
126EWATKINS-OUT	126 E Watkins. Front of building-adjacent to porch.	Outdoor Air/Grab Summa Canistor	0406420A-01A	Benzene	Mod. TO-15	

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0406420

Work Order Summary

CLIENT:

Ms. Robin Schilling

Warrenville, IL 60555

BILL TO: Ms. Robin Schilling

ENSR

ENSR 27755 Diehl Road

27755 Diehl Road Suite 100

Suite 100

Warrenville, IL 60555

PHONE:

630-836-1700

P.O. #

2017826

FAX:

630-836-1711

PROJECT#

01005-093 Hartford

DATE RECEIVED:

6/23/2004

CONTACT: DeDe Dodge

DATE COMPLETED:

6/28/2004

RECEIPT **FRACTION# NAME TEST** VAC/PRES. 01A 126EWATKINS-OUT Modified TO-15 4.5 "Hg Modified TO-15 NA 02A Lab Blank 03A **CCV** Modified TO-15 NA Modified TO-15 NA 04A LCS

CERTIFIED BY:

Sinda d. Frumas

06/28/04 DATE:

Laboratory Director

Certification numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE Modified TO-15 ENSR

Workorder# 0406420

One 6 Liter Summa Canister sample was received on June 23, 2004. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	TO-14A/TO-15	ATL Modifications
BFB acceptance criteria	CLP protocol (TO-15)	SW-846 protocol
Concentration of IS spike	10 ppbν (TO-15)	25 ppbv
Dilutions for initial calibration	Dynamic dilutions or static using canisters	Syringe dilutions
Daily CCV	= 30% Difference</td <td><!--= 30% Difference with two allowed out up to </=40%.; flag<br-->and narrate outliers</td>	= 30% Difference with two allowed out up to </=40%.; flag<br and narrate outliers
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43.	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58.
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Sample Drying System	Nafion Dryer (TO-14A)	Multisorbent
Sample Load Volume	400 mL (TO-14A)	Varied to 0.2 L.
Blank Acceptance Criteria.	< 0.20 ppbv (TO-14A)	< RL
BFB Absolute Abundance Criteria (TO-14A)	Within 10% of that from the previous day.	CCV internal standard area counts are compared to ICAL, corrective action for > 40 % D.
Initial Calibration	= 30 %RSD (TO-14A)</td <td><!--= 30 % RSD with 2 compounds allowed out to </= 40 % RSD.</td--></td>	= 30 % RSD with 2 compounds allowed out to </= 40 % RSD.</td
IS Recoveries	Within 40% of mean over ICAL for blanks, and within 40 % of daily CCV for samples. (TO-15)	Within 40% of CCV recoveries for blank and samples.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated Peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue

SAMPLE NAME: 126EWATKINS-OUT

ID#: 0406420-01A

Herrich (1975) (1) 10 High (1975) (2) 10 High (1975)	20 00, 113		endingstander seine s	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.79	Not Detected	2.6	Not Detected
Container Type: 6 Liter Sur	nma Canister			
Surrogates		%Recovery		Method Limits
Toluene-d8		97		70-130

SAMPLE NAME: Lab Blank

ID#: 0406420-02A

	*10.72 50		01051 3 010430 (0105141017) 701	Bloops A.
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.50	Not Detected	1.6	Not Detected
Container Type: NA - Not Ap	plicable			
Surrogates		%Recovery		Method Limits
Toluene-d8		98		70-130

SAMPLE NAME: CCV

ID#: 0406420-03A

	030, 50, 30, 30, 00, 00, 00, 00, 00, 00, 00, 0	
Compound		%Recovery
Benzene		96
Container Type: NA - Not Applicable		
•	N.B.	Method
Surrogates	%Recovery	Limits
Toluene-d8	100	70-130

SAMPLE NAME: LCS

ID#: 0406420-04A

Projection Projection Control of the	THE PARTY OF THE P	Barran Francisco (C.)
Compound		%Recovery
Benzene		109
Container Type: NA - Not Applicable		
Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130



Sample Transportation Notice

with all applicable local, State, Federal, national, and international laws, regulations and (916) 985-1000 FAX: (916) 985-1020 ordinances of any kind, Air Tokics Limited assumes no liability with nappect to the collection. Relinquicking signature on this document indicates that sample is being shipped in compliance FOLSOM, CA 95630-4719

180 BLUE RAVINE ROAD, SUITE B

Canister Pressure / Vacuum .#: -K: -51 |-12 |-13 • :-Specify Turn Around Time: 0.5-Final D-Kormal □ Rush -280 nand ing or shipping of these samples. Relinquishing signature also indicates agreement to hold hammless, defend, and indemnatify A.r Tooks Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.D.T. Hattine (800) 467-4922 Project Name //contract Project # Clad Soof 3 Analyses Requested -Benzene Project info: P.O. 4 Address 27255 Dight Roading London Wilkstell Ziplas SS 13:00 Date & Time Schumacher lol22/or CHAIN-OF-CUSTODY RECORD 12 WEWATKINS-OUT Field Sample I.D. Phone (30 834-170) Contact Person DANC Company ENSR Collected By: Signs Na •; **3**0

Form 1885 rev. 36 View Of Design 0406420 Coated Salaining ŝ *** Containon Opening Ely 53% THE 53%

Notes:

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Received By: (Eig

Received By (Signature) Describe

Relinquisned By: (Signature) Date/Time

APPENDIX J

AIR TOXICS LTD LABORATORY REPORT 0406483					
Field Sample ID	Sample Location Description	Type/Container	Laboratory Sample ID	Analysis	Method
062404-HMW3	Vapor sample from monitoring well HMW-3 located on the north end of North Olive street; sample collected inside well casing approximately 1 foot below.	•	0406483A-01A	Sulfur Gases	ASTM D-5504

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0406483

Work Order Summary

CLIENT:

Ms. Robin Schilling

27755 Diehl Road

Warrenville, IL 60555

BILL TO: Ms. Robin Schilling

ENSR

Suite 100

ENSR

27755 Diehl Road

Suite 100

Warrenville, IL 60555

PHONE:

630-836-1700

P.O. # 2017826

FAX:

630-836-1711

PROJECT#

01005-093 Hartford

DATE RECEIVED: DATE COMPLETED: 6/25/04 6/26/04

CONTACT:

DeDe Dodge

			RECEIPT
FRACTION #	NAME	TEST	<u>VAC/PRES.</u>
01A	062404-HMW3	ASTM D-5504	Tedlar Bag
01AA	062404-HMW3 Duplicate	ASTM D-5504	Tedlar Bag
02A	Lab Blank	ASTM D-5504	NA
03A	LCS	ASTM D-5504	NA

CERTIFIED BY:

Sinda d. Fruman

06/26/04 DATE:

Laboratory Director

Certification numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- Al 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE ASTM D-5504 ENSR Workorder# 0406483

One 5 Liter Tedlar Bag sample was received on June 25, 2004. The laboratory performed the analysis of sulfur compounds via ASTM D-5504 using GC/SCD. The method involves direct injection of the air sample into the GC via a fixed 1.0 mL sampling loop. See the data sheets for the reporting limits for each compound.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Ethyl Methyl Sulfide and n-Butyl Mercaptan coelute with 3-Methyl Thiophene. The corresponding peak is reported as 3-Methyl Thiophene.

Sample 062404-HMW3 was received with insufficient time remaining to analyze within the method specified 24 hour hold time.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

- B Compound present in laboratory blank greater than reporting limit.
- J Estimated value.
- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the detection limit.
- M Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue

SAMPLE NAME: 062404-HMW3

ID#: 0406483-01A

SULFUR GASES BY ASTM D-5504 GC/SCD

FIDE	A STATE OF THE STA		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	
Hydrogen Sulfide	4.0	530	
Carbonyl Sulfide	4.0	4.1	
Methyl Mercaptan	4.0	Not Detected	
Ethyl Mercaptan	4.0	Not Detected	
Dimethyl Sulfide	4.0	Not Detected	
Carbon Disulfide	4.0	Not Detected	
Isopropyl Mercaptan	4.0	Not Detected	
ert-Butyl Mercaptan	4.0	7.6	
n-Propyl Mercaptan	4.0	4.9	
Ethyl Methyl Sulfide	4.0	Not Detected	
Thiophene	4.0	Not Detected	
Isobutyl Mercaptan	4.0	52	
Diethyl Sulfide	4.0	Not Detected	
Butyl Mercaptan	4.0	Not Detected	
Dimethyl Disulfide	4.0	Not Detected	
3-Methylthiophene	4.0	4.5	
Tetrahydrothiophene	4.0	Not Detected	
2-Ethylthiophene	4.0	Not Detected	
2,5-Dimethylthiophene	4.0	Not Detected	
Diethyl Disulfide	4.0	Not Detected	

Container Type: 5 Liter Tedlar Bag

SAMPLE NAME: 062404-HMW3 Duplicate

ID#: 0406483-01AA

SULFUR GASES BY ASTM D-5504 GC/SCD

PU (MIP) B) 1 X (S)	(通りが 20/ (3 (6))	reninga sepiseban (1969) Detwokarah, ban 1986 bangan
Compound	Rpt. Lim (ppbv)	it Amount (ppbv)
Hydrogen Sulfide	12	510
Carbonyl Sulfide	12	Not Detected
Methyl Mercaptan	12	Not Detected
Ethyl Mercaptan	12	Not Detected
Dimethyl Sulfide	12	Not Detected
Carbon Disulfide	12	Not Detected
Isopropyl Mercaptan	12	Not Detected
tert-Butyl Mercaptan	12	Not Detected
n-Propyl Mercaptan	12	Not Detected
Ethyl Methyl Sulfide	12	Not Detected
Thiophene	12	Not Detected
Isobutyl Mercaptan	12	55
Diethyl Sulfide	12	Not Detected
Butyl Mercaptan	12	Not Detected
Dimethyl Disulfide	12	Not Detected
3-Methylthiophene	12	13
Tetrahydrothiophene	12	Not Detected
2-Ethylthiophene	12	Not Detected
2,5-Dimethylthiophene	12	Not Detected
Diethyl Disulfide	12	Not Detected

Container Type: 5 Liter Tedlar Bag

SAMPLE NAME: Lab Blank ID#: 0406483-02A

SULFUR GASES BY ASTM D-5504 GC/SCD

albunio Prati	DIST.	\$0,581,576.35 1910,777,778,850,577,774,777
Compound	Rpt. Limit (ppbv)	Amouпt (ppbv)
Hydrogen Sulfide	4.0	Not Detected
Carbonyl Sulfide	4.0	Not Detected
Methyl Mercaptan	4.0	Not Detected
Ethyl Mercaptan	4.0	Not Detected
Dimethyl Sulfide	4.0	Not Detected
Carbon Disulfide	4.0	Not Detected
sopropyl Mercaptan	4.0	Not Detected
ert-Butyl Mercaptan	4.0	Not Detected
n-Propyl Mercaptan	4.0	Not Detected
Ethyl Methyl Sulfide	4.0	Not Detected
Thiophene	4.0	Not Detected
sobutyl Mercaptan	4.0	Not Detected
Diethyl Sulfide	4.0	Not Detected
Butyl Mercaptan	4.0	Not Detected
Dimethyl Dísulfide	4.0	Not Detected
3-Methylthiophene	4.0	Not Detected
Tetrahydrothiophene	4.0	Not Detected
2-Ethylthiophene	4.0	Not Detected
2,5-Dimethylthiophene	4.0	Not Detected
Diethyl Disulfide	4.0	Not Detected

Container Type: NA - Not Applicable

SAMPLE NAME: LCS

ID#: 0406483-03A

SULFUR GASES BY ASTM D-5504 GC/SCD

Dan of the Contract

EDD BENDAY, MANAGES

82

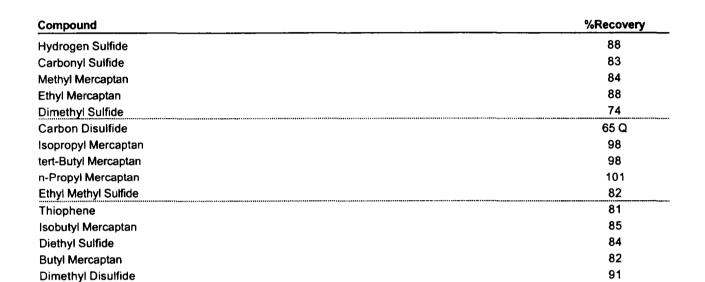
86

83

83

89

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Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

3-Methylthiophene

2-Ethylthiophene

Diethyl Disulfide

Tetrahydrothiophene

2,5-Dimethylthiophene

(all)

